Ezequiel A. Di Paolo

Ikerbasque, Basque Science Foundation,
IAS-Research,
Department of Informatics,
University of Sussex

t: +34 943 018549
f: +34 943 015470
e: ezequiel.dipaolo@ehu.es
w: ezequieldipaolo.net

Profile

I am a Research Professor at Ikerbasque, the Basque Science Foundation, working the intersection in the sciences of the mind. I have contributed to embodied approaches in cognitive science and philosophy of mind by combining insights from biology, phenomenology, and dynamical systems theory. Previously, I was a Reader in Evolutionary and Adaptive Systems at the University of Sussex where I was co-director of the Evolutionary and Adaptive Systems MSc programme. My research interests include embodied cognition, enaction, agency, language, intersubjectivity, bodily becoming, and complexity. I have extensive experience in research project management, curriculum development, teaching and research supervision (to date: 13 PhDs and 17 Postdocs). I am the (co)author of over 180 peer-reviewed publications, including books and edited collections.

Employment

Research Professor	Ikerbasque, Basque Foundation for Science	2010–
Visiting Professor Department of Informatics	University of Sussex	2010–
Reader Evolutionary and Adaptive Systems	University of Sussex	2007–2009
Senior Lecturer Evolutionary and Adaptive Systems	University of Sussex	2005–2007
Lecturer Evolutionary and Adaptive Systems	University of Sussex	2000–2005
Postdoctoral Researcher	GMD: German National Research Center for Information Technology	1999–2000

Education

D.Phil., Computer Science and Artificial Intelligence	University of Sussex	1995–1998
M.Sc. Nuclear Engineering	Instituto Balseiro, Argentina	1990–1994
Physics & Mathematics	Universidad de Buenos Aires	1988–1990

Research Funding

• *eSMCs: Extending Sensorimotor Contingencies to Cognition* FP7-ICT-2009-6 no: 270212. PI. Status: completed.	2011–2014 €3,645,000
• *TESIS: Towards an Embodied Science of Intersubjectivity* Marie-Curie ITN. FP7-PEOPLE-2010-ITN, no: 264828. PI and Network Training Coordinator. Status: completed.	2011–2015 €4,295,272
• *Quantifiable Constituents of Spiritual Growth* John Templeton Foundation, Co-investigator. Status: completed.	2013–2016 $2,300,000
• *Radical Embodied Neuroscience* MICINN. PID2021-127294NA-I00. Co-Investigator. Status: running.	2022–2024 €40,000
• *Basque Government Financing for Research Groups IAS-Research* IT1668-22 Co-Investigator. Status: running.	2022–2025 €106,400
• *Basque Government Financing for Research Groups IAS-Research* IT1228-19. Co-Investigator. Status: completed.	2019–2021 €170,548
• *Basque Government Financing for Research Groups IAS-Research* IT590-13. Co-Investigator. Status: completed.	2013–2018 €226,598
• *Identity in Interaction* Spanish Ministry of Science and Innovation. FFI2014-52173-P. Co-Investigator. Status: completed.	2015–2019 €50,000
• *Autonomy and Levels of Organization* Spanish Ministry of Science and Innovation. FFI2011-25665/FISO. Co-Investigator. Status: completed.	2012–2014 €70,950
• *Basque Government Financing for Research Groups IAS-Research* IT505-10. Co-Investigator. Status: completed.	2010–2012 €61,000.
• *Information, Autonomy, and Systems* Spanish Ministry of Science and Education. HUM2005-02449. Co-Investigator. Status: completed.	2005–2008 €45,220
• *SECSE: Spatially-embedded Complex Systems Engineering* EPSRC(UK) Project EP/C51632X/1. PI. Status: completed.	2005–2009 £1,534,784
• *SMoCN: Simple Models of Complex Networks* EPSRC(UK) Research Cluster. GR/S63762/01. PI. Status: completed.	2003–2004 £53,539
• *Adaptation to Radical Sensorimotor Disruptions through Internal Homeostasis* Nuffield Foundation. NAL/00274/G. PI. Status: completed.	2001–2003 £4,000

Awards and Fellowships

Cesar Milstein Award, Programa Raices (Argentina)	2009/2013
Nuffield Foundation Award for Newly Appointed Lecturers in Maths and Engineering	2001–2003
Overseas Research Students Award (CVCP, UK)	1997–1998
CONICET (Fellowship, Argentine Research Council)	1995–1998
Research Award from Argentine Ministry of Education	1995–1997
National Atomic Energy Agency Research Fellow (Argentina)	1994–1995
National Atomic Energy Agency Scholarship (Argentina)	1990–1994

Current Research

Centre for Research on Life, Mind and Society — University of the Basque Country — 2010–present

- *Embodied cognitive science; Enaction*
- *Social Cognition; Intersubjectivity*
- *Philosophy of Mind*

Centre for Computational Neuroscience and Robotics — University of Sussex — 2000–present

- *Evolutionary robotics*
- *Computational neuroscience*
- *Evolutionary biology*
- *Philosophy of mind and embodied cognitive science*
- *Complex spatial networks*

Previous Research Experience

Postdoctoral Researcher — German National Research Centre for Information Technology (GMD) — 1999–2000

- *Evolutionary biology modelling.*
- *Active perception and plasticity.*

Doctoral Dissertation — University of Sussex — 1995–1999

"On the Evolutionary and Behavioral Dynamics of Social Coordination"

Supervisor: Prof. Phil Husbands. Defended January 1999

Research Fellow, National Atomic Energy Agency — Department of Process Control. Bariloche Atomic Centre — 1994–1995

- *Recurrent neural networks for dynamic data analysis*

MSc Dissertation

"A Knowledge-Based System for Real-Time Fault Diagnosis in a Nuclear Power Plant"

Supervisor: Dr. Luis Rovere, Instituto Balseiro. Defended August 1994

Media and Outreach

Entrevistas (im)posibles.	Documentary, UNAM TV, Mexico	2016
La mente corporizada	Documentary, University of Zaragoza	2014
Education Physique et Sport (362)	Interview	2014
AVANT (Journal)	Interview (with Hanne De Jaegher)	10/2012
Noticias de Gipuzkoa	Interview (with Hanne De Jaegher)	05/2012
Gara newspaper	Interview (with Hanne De Jaegher)	05/2012
donostiakultura	Open public talk ("Body and Emotions")	11/2011
Ikerbasque Bulletin	Interview	10/2011
El Pais	Interview	09/2011
New APPS Blog	Interview	06/2011
RTVE (Spanish TV)	Tres14 (Pop Science Program)	04/2011
El Periodico de Aragon	Interview	05/2010
El Heraldo de Aragon	Interview	05/2010
Pagina 12	Feature article	05/2009

Teaching/Supervision

Reader	Evolutionary and Adaptive Systems School of Cognitive and Computing Sciences (COGS) University of Sussex	2007–2009
Senior Lecturer		2005–2007
Lecturer		2000–2005

Areas of teaching expertise: Curriculum development, lecturing, seminar and lab class organisation, and assessment. Cognitive science, social cognition, artificial intelligence, adaptive systems, adaptive behaviour, ecological and evolutionary modelling, evolutionary game theory, spatially embedded processes, computational neuroscience, chronobiology, artificial life, scientific computing and numerical methods, pure and applied mathematics, dynamical systems theory, control theory, physics of nonlinear phenomena and self-organisation, philosophy of mind.

Students: Postgraduate level, including MSc, MRes and MA students in Evolutionary and Adaptive Systems, Philosophy of Cognitive Science, and Intelligent Systems. Undergraduate level: final year.

Courses:

• *Intelligence in Animals and Machines:* Postgraduate seminar organisation, development of course material and online resources, assessment.

• *Adaptive Systems:* Curriculum development, lectures, seminar organisation, development of course material and electronic resources, development of laboratory practices, assessment.

• *Dynamics of Development:* Newly developed postgraduate module (2006). Lectures, seminar organisation, development of course material and electronic resources, development of curriculum, assessment.

Supervision:

• *Postdoctoral supervision:* Since 2005: 17 PD researchers.

• *PhD supervision:* Since 2000: 13 completed dissertations.

• *MSc dissertation supervision:* 6-8 per year, 2000–2009. Supervised dissertations have won best dissertation prize in all years so far.

• *UG final-year project supervision:* 6-7 per year, 2000–2009. Supervised projects have obtained runner-up Searchspace prizes in 2002 and 2003 and won it in 2003, 2004 and 2005.

Previous Teaching Experience

Tutor Instituto Balseiro 1994–1995

Heat and Mass Transfer.

Tutor Instituto Balseiro 1994–1995

Laboratory of Control Engineering.

Tutor Universidad de Buenos Aires 1989–1990

Multi-variate Calculus and *Linear Algebra.*

Event Organization

• Summer School "Embodying Intersubjectivity Research", 14–18 May 2012, San Sebastian, Spain.

• Summer School "The Future of the Embodied Mind", 5–9 September 2011, San Sebastian, Spain.

• Workshop "Enactive Approaches to Social Cognition", 31 August – 1 September 2008, Battle, UK.

• Workshop "Agency in Artificial and Natural Systems", 11–12 July, 2008, Kyoto, Japan.

• Workshop "Mathematical Models in Evolution and Ecology", September, 20–21 2007, University of Sussex.

• "International Research Symposium: A Networks Perspective on Complex Systems Challenges", January, 19–20 2004, University of Leeds.

• "Summer Workshop on Simple Models of Complex Networks", July 17–18 2003, University of Leeds.

• Workshop "Open Challenges in Complex Networks Science", May 4, 2003, University of Leeds.

• Workshop "The View from Elsewhere" at the 6th European Conference on Artificial Life, (ECAL'2001), Prague, Czech Republic, Sept. 2001.

• Workshop "Artificial Life: Discipline or Method?" at the 5th European Conference on Artificial Life, (ECAL'99), Lausanne, Switzerland, Sept. 1999.

Administrative

• Project and Research Group Management (Embodiment and Intersubjectivity).

• Training Coordinator Marie-Curie Initial Training Network TESIS 2011– 2015.

• Editor in Chief of Adaptive Behavior: 2008– present.

• Co-Director Evolutionary and Adaptive Systems MSc Programme: 2008–2009.

• Member of Exam Boards Sussex University: 2001 - 2009.

• European Convenor, Informatics, Sussex University. 2001–2002

• Autonomous Robots Lab development and administration: 2001–2009.

• Organizer of the Life and Mind seminar series: 2006–present

• Co-organizer of Artificial Life Reading Group at Sussex (Alergic) seminar series: 2001–2009

• Erasmus Programme: Sussex Coordinator for Seminar in Cognitive Science: 2001–2009.

• Liaison Erasmus Programme Intesif Philosophie, Technologie, Cognition: 2001–2009.

Professional Memberships

• Member of the EPSRC College of Peers (UK) (2006–present).

• Member of the Board of Directors of the *International Society of Artificial Life - ISAL* (2009–2014).

• Member of the *International Society for Adaptive Behavior - ISAB* (2008–present).

• Member of the Mind and Life Institute Europe (2016–present).

Other Professional Activities

• Keynote speaker at several international conferences and workshops.

• Editor-in-chief of the journal *Adaptive Behavior* (2008–2017).

• Associate Editor of the journal *Adaptive Behavior* (2017–present).

• Associate Editor of the journal *Frontiers in Psychology* (2018–present).

• Member of the Editorial Board of *Constructivist Foundations* and *Leonardo Electronic Almanac* (2009–present).

• External examiner, Computing and AI Masters Programme, University of Plymouth.

• Expert reviewer FP7-ICT.

• Grant proposal reviewer for the European Commission, EPSRC(UK), ESRC(UK), Swiss National Science Foundation, Research Foundation Flanders (FWO), and others.

• Project progress reviewer for EU-FP6 projects.

• Guest Editor for special issue of *Phenomenology and the Cognitive Science* on "The Social and Enactive Mind". Issue 8(4), 2009.

• Guest Editor for special issue of *Adaptive Behavior* on "Plastic mechanisms, multiple timescales and lifetime adaptation". Issue 10(3/4), 2002.

• Guest Editor for special issue of *Artificial Life* on "Francisco Varela and Alife" Issue 10/3, 2004.

• Regular member of the Programme Committee of major international conferences in the field (ECAL, CEC, SAB, ALife, GECCO).

• Programme Committee Membership 2004/5: SBRN 2004: Brazilian Symposium on Artificial Neural Networks (SBRN) São Luis, Brazil, 2004; IMAACA 2004. I3M: Genoa, Italy, 2004; AMIRE 2005: International Symposium on Autonomous Miniature Robots. Fukui, Japan 2005; IWASP: International Workshop on Self-Adaptive Systems and Processes. Taipei, 2005; Bio-ADIT 2006: 2nd International Workshop on Biologically Inspired approaches to Advanced Information Technology. Osaka University, 2006;

• Reviewing activity for *Frontiers in Neuroscience*, *Journal of Consciousness Studies*, *Phenomenology and the Cognitive Sciences*, *Adaptive Behavior*, *Animal Behaviour*, *Artificial Life*, *BioSystems*, *Body and Society*, *Cognitive Science*, *Cybernetics and Systems*, *IEEE Transactions on Evolutionary Computation*, *Philosophical Transactions of the Royal Society, London A*, *Physica D*, and others.

• Internal and external examiner of several (15+) PhD defences at international level. Member of jury for a defence for a Habilitation à Diriger des Recherches (Université Blaise Pascal, France, 2006).

Ezequiel A. Di Paolo–List of Publications

November, 2022
http://ezequieldipaolo.net/publications/
https://orcid.org/0000-0002-3296-5021/

Citation Information

Citations: **14,334**

h-index: **48**

i10-index: **125**

Source: Google Scholar (07-11-2022)

Journal Papers, Refereed

[1] Hüg, M. X., Bermejo, F., Tommasini, F. C., and Di Paolo, E. A. (2022). Effects of guided exploration on reaching measures of auditory peripersonal space. *Frontiers in Psychology*, 13:983189. doi: 10.3389/fpsyg.2022.983189.

[2] Di Paolo, E. A. (2022). Markov Border Crossings. *Physics of Life Reviews*, 43, 7–9. https://doi.org/10.1016/j.plrev.2022.07.006.

[3] Di Paolo, E. A. (2022). A Test Run of the Free Energy Principle: All for naught? *Physics of Life Reviews*, 41, 61–63. https://doi.org/10.1016/j.plrev.2022.05.001.

[4] Di Paolo E. A. (2022). What needs to change for us to love a place? *Constructivist Foundations*, 17(3), 211?214.

[5] Di Paolo, E. A., Thompson, E. and Beer, R. D. (2022). Laying down a forking path: Tensions between enaction and the free energy principle. *Philosophy and the Mind Sciences*, 3. https://doi.org/10.33735/phimisci.2022.9187.

[6] Arandia, I. R. and Di Paolo E. A. (2022). On symptom perception, placebo effects, and the Bayesian brain. *PAIN*, 163, e604. doi:10.1097/j.pain.0000000000002488.

[7] García, E., Di Paolo, E. A., and De Jaegher, H. (2022). Embodiment in online psychotherapy: A qualitative study. *Psychology and Psychotherapy*, 95(1), 191-211. https://doi.org/10.1111/papt.12359.

[8] Di Paolo, E. A. and De Jaegher, H. (2021). Enactive ethics: Difference becoming participation. *Topoi*, 41, 241–256, doi:10.1007/s11245-021-09766-x.

[9] Arandia, I. R. and Di Paolo E. A. (2021). Placebo from an enactive perspective. *Frontiers in Psychology*. 12:660118. doi: 10.3389/fpsyg.2021.660118.

[10] Cuffari, E. Di Paolo, E. A., De Jaegher, H. (2021). Letting language be: reflections on enactive method. *Filosofia Unisinos — Unisinos Journal of Philosophy*, 22(1), 117–124. doi: 10.4013/fsu.2021.221.14.

[11] Di Paolo E. A. (2021). Bridges and hobby-horses: John Stewart's adventure of ideas. *Adaptive Behavior*, 29(5), 437–440. doi: 10.1177/1059712320988216.

[12] Aguilera, M. and Di Paolo, E. A. (2021). Critical integration in neural and cognitive systems: Beyond power-law scaling as the hallmark of soft-assembly. *Neuroscience and Biobehavioral Reviews*, 123, 230–237. doi: 10.1016/j.neubiorev.2021.01.009.

[13] Di Paolo, E. A. (2020). How your own becoming feels. *Emotion Review* 12(4), 229–230. doi: 10.1177/1754073920931575.

[14] McGann, M., Di Paolo, E. A., Heras-Escribano, M., and Chemero, A. (2020). Enaction and ecological psychology: Convergences and complementarities. *Frontiers in Psychology*, 11, 617898. doi: 10.3389/fpsyg.2020.617898.

[15] Di Paolo, E. A. (2020). Picturing organisms and their environments: Interaction, transaction, and constitution loops. *Frontiers in Psychology*, 11, 1912. doi: 10.3389/fpsyg.2020.01912.

[16] Bermejo, F., Hüg, M. X., and Di Paolo, E. A. (2020). Rediscovering Richard Held: Activity and passivity in perceptual learning. *Frontiers in Psychology*, 11, 844. doi: 10.3389/fpsyg.2020.00844.

[17] Bermejo, F., Di Paolo, E. A., Gilberto, L. G., Lunati, V., and Barrios, M. V. (2020). Learning to find spatially reversed sounds. *Scientific Reports*, 10, 4562. doi: 10.1038/s41598-020-61332-4.

[18] Di Paolo, E. A. (2020). Enactive becoming. *Phenomenology and the Cognitive Sciences*, doi: 10.1007/s11097-019-09654-1.

[19] Di Paolo, E. A. (2019). Why do we build the wall. *Adaptive Behavior*, 28(1), 37–38. doi: 10.1177/1059712319834884.

[20] Di Paolo, E. A. (2019). Process and individuation: The case of sensorimotor agency. *Human Development*, 63(3–4), 202–226. doi: 10.1159/000503827.

[21] Aguilera, M. and Di Paolo, E. A. (2019). Integrated information in the thermodynamic limit. *Neural Networks*, 114, 136–146.

[22] Di Paolo, E. A. and De Jaegher, H. (2019). Microphenomenology of first encounters. A sympathetic critique. *Constructivist Foundations*, 14(2), 185–187.

[23] Garcia, E. and Di Paolo, E. A. (2018). Embodied coordination and psychotherapeutic outcome: Beyond direct mappings. *Frontiers in Psychology*, 9, 1257. doi: 10.3389/fpsyg.2018.01257.

[24] Buhrmann, T. and Di Paolo, E. A. (2017). The sense of agency: A phenomenological consequence of enacting sensorimotor contingencies. *Phenomenology and the Cognitive Sciences*, 16(2), 207–236. doi: 10.1007/s11097-015-9446-7.

[25] Di Paolo, E. A. (2016). Participatory object perception. *Journal of Consciousness Studies*, 23(5–6), 228–258.

[26] De Jaegher, H., Di Paolo, E. and Adolphs, R. (2016). What does the Interactive Brain Hypothesis mean for Social Neuroscience? A dialogue, *Philosophical Transactions of the Royal Society B*, 371, 20150379. http://dx.doi.org/10.1098/rstb.2015.0379.

[27] Di Paolo E. A. (2016). Across the uncanny valley: The ecological, the enactive, and the strangely familiar. *Constructivist Foundations*, 11(2): 327–329.

[28] Hu, X-B., Wang, M., Leeson, M. S., Di Paolo, E. A. and Liu, H. (2016). Deterministic agent-based path optimization by mimicking the spreading of ripples, *Evolutionary Computation*, 24(2), 319–346, doi:10.1162/EVCO_a_00156.

[29] Bermejo, F, Di Paolo, E., Hg, M. X. and Arias, C. (2015). Sensorimotor strategies for recognizing geometrical shapes: A comparative study with different sensory substitution devices. *Frontiers in Psychology* 6, 679. doi: 10.3389/fpsyg.2015.00679.

[30] Di Paolo, E. and De Jaegher, H. (2015). Toward an embodied science of intersubjectivity: widening the scope of social understanding research. *Frontiers in Psychology* 6, 234. doi: 10.3389/fpsyg.2015.00234.

[31] Di Paolo, E. (2015). Interactive time-travel: On the intersubjective retro-modulation of intentions, *Journal of Consciousness Studies*, 22(1–2), 49–74.

[32] Kyselo, M. and Di Paolo, E. A. (2015). Locked-in syndrome: A challenge for embodied cognitive science. *Phenomenology and the Cognitive Sciences*, 14(3), 517–542. doi: 10.1007/s11097-013-9344-9.

[33] Cuffari, E. Di Paolo, E., De Jaegher, H. (2014). From participatory sense-making to language: There and back again, *Phenomenology and the Cognitive Sciences*, doi 10.1007/s11097-014-9404-9 (online first).

[34] Buhrmann, T. and Di Paolo, E. A. (2014). Spinal circuits can accommodate interaction torques during multijoint limb movements. *Frontiers in Computational Neuroscience* 8, 144. doi: 10.3389/fncom.2014.00144.

[35] Husbands, P. and Di Paolo, E. A. (2014). The Gomi legacy. *Adaptive Behavior*, 22, 386–389, doi: 10.1177/105971231454563.

[36] Di Paolo E. A., Barandiaran X.E., Beaton M., and Buhrmann T. (2014). Learning to perceive in the sensorimotor approach: Piaget's theory of equilibration interpreted dynamically. *Frontiers in Human Neuroscience* 8,551. doi: 10.3389/fnhum.2014.00551.

[37] Barandiaran, X. E. and Di Paolo, E. A. (2014). A genealogical map of the concept of habit. *Frontiers in Human Neuroscience* 8, 522. doi: 10.3389/fnhum.2014.00522.

[38] Di Paolo, E. A. (2014). The worldly constituents of perceptual presence. *Frontiers in Psychology* 5, 450. doi: 10.3389/fpsyg.2014.00450.

[39] Di Paolo, E. A., De Jaegher, H. and Gallagher, S. (2013). One step forward, two steps back. Not the tango. *Trends in Cognitive Sciences*, 17(7), 303–304, doi: 10.1016/j.tics.2013.05.003.

[40] Buhrmann, T., Di Paolo, E. A. and Barandiarn, X. (2013) A dynamical systems account of sensorimotor contingencies, *Frontiers in Psychology* 4, 285. doi: 10.3389/fpsyg.2013.00285.

[41] McGann, M., De Jaegher, H. and Di Paolo, E. A. (2013) Enaction and psychology, *Review of General Psychology*, 17(2), 203–209 doi: 10.1037/a0032935.

[42] De Jaegher H and Di Paolo E. A. (2013). Enactivism is not interactionism. *Frontiers in Human Neuroscience* 6, 345.

[43] Bedia M. G. and Di Paolo E. A. (2012). Unreliable gut feelings can lead to correct decisions: The somatic marker hypothesis in non-linear decision chains. *Frontiers in Psychology* 3, 384.

[44] Di Paolo, E. A. and De Jaegher, H. (2012). The interactive brain hypothesis, *Frontiers in Human Neuroscience*, 6, 163.

[45] Hu, X-B, Wang, M. and Di Paolo, E. A. (2012). Calculating complete and exact Pareto front for multiobjective optimization: A new deterministic approach for discrete problems, *IEEE Transactions on Systems, Man, and Cybernetics: Part B*, 43(3), 1088–1101. doi: 10.1109/TSMCB.2012.2223756

[46] Egbert, M. D., Barandiaran, X. E., and Di Paolo, E. A. (2012). Behavioral metabolution: The adaptive and evolutionary potential of metabolism-based chemotaxis. *Artificial Life*, 18(1), 1–25.

[47] Froese, T. and Di Paolo, E. A. (2011). The enactive approach: Theoretical sketches from cell to society. *Pragmatics and Cognition*, 19, 1–36.

[48] Hu, X-B. Wang, M., Leeson, M. S, Hines, E. L., and Di Paolo, E. A. (2011). A deterministic ripple-spreading model for complex networks, *Physical Review E*, 83, 046123.

[49] Liu, H., Hu, X-B., Yang, S., Zhang, Y., and Di Paolo E. (2011). Application of Complex Network Theory and Genetic Algorithm in Airline Route Networks. *Transportation Research Record*, 2214, 50–58. doi: 10.3141/2214-07.

[50] Egbert, M., Barandiaran, X. and Di Paolo, E. A. (2010). A minimal model of metabolism-based chemotaxis, *PLoS Computational Biology*, 6(12), e1001004.

[51] Hu, X-B. and Di Paolo, E. A. (2010) A ripple-spreading genetic algorithm for the aircraft sequencing problem, *Evolutionary Computation*, 19(1), 77–106.

[52] De Jaegher, H., Di Paolo, E. A., and Gallagher, S. (2010). Can social interaction constitute social cognition? *Trends in Cognitive Sciences*, 14(10), 441–447.

[53] Husbands, P., Philippides, A., Vargas, P., Buckley, C. L., Fine, P., Di Paolo, E. A. and O'Shea (2010). Spatial, temporal and modulatory factors affecting GasNet evolvability, *Complexity*, 16(2), 35–44.

[54] Bullock, S., Barnett, L., Di Paolo, E. A. (2010). Spatial embedding and the structure of complex networks, *Complexity*, 16(2), 20–28.

[55] Di Paolo, E. A. (2010). Robotics inspired in the organism. *Intellectica*, 53–54, 129–162.

[56] Froese, T. and Di Paolo, E. A. (2010) Modeling social interaction as perceptual crossing: An investigation into the dynamics of the interaction process, *Connection Science*, 22(1), 43–68.

[57] Froese, T. and Di Paolo, E. A. (2009) Sociality and the life–mind continuity thesis, *Phenomenology and the Cognitive Sciences*, 8(4), 439–463

[58] Egbert, M., and Di Paolo, E. A. (2009). Adding behavior to autopoiesis: A foray in computational chemo-ethology. *Adaptive Behavior*, 17(5), 387–401.

[59] Barandian, X., Di Paolo, E. A., and Rohde, M. (2009). Defining agency. *Adaptive Behavior*, 17(5), 367–386.

[60] Di Paolo, E. A. (2009). Extended life *Topoi*, 28, 9–21.

[61] Hu, X-B., Di Paolo, E. A. (2009). An efficient genetic algorithm with uniform crossover for air traffic control, *Computers and Operations Research*, 36, 245–259.

[62] Vickerstaff, R., and Di Paolo, E. A. (2008). Regarding compass response functions for modeling path integration. *Adaptive Behavior*, 16(4), 275–276.

[63] Di Paolo, E. A. (2008). A mind of many. *Constructivist Foundations*, 3(2), 89–91.

[64] Hu, X-B., Di Paolo, E. A. (2008). A binary representation based genetic algorithm for aircraft arrival sequencing and scheduling, *IEEE Transactions on Intelligent Transportation Systems*, 9, 301–310.

[65] Hu, X-B., Di Paolo, E. A. and Wu S. F. (2008) A comprehensive fuzzy-rule-based self-adaptive genetic algorithm, *Journal of Intelligent Computing and Cybernetics*, 1, 94–109.

[66] Di Paolo, E. A. and Iizuka, H. (2008). How (not) to model autonomous behaviour, *BioSystems*, 91, 409–423.

[67] Di Paolo, E. A., Rohde, M. and Iizuka, H. (2008). Sensitivity to social contingency or stability of interaction? Modelling the dynamics of perceptual crossing. *New Ideas in Psychology* Special issue on Dynamics and Psychology, 26, 278–294.

[68] McDonald-Gibson, J., Di Paolo, E. A., Dyke, J. G. and Harvey, I. (2008). Environmental regulation can arise under minimal assumptions. *Journal of Theoretical Biology*, 251(4), 653–666.

[69] Barnett, L., Di Paolo, E. A., Bullock, S. (2007). Spatially embedded random networks *Physical Review E*, 76, 056115.

[70] De Jaegher, H. and Di Paolo, E. A. (2007). Participatory sense-making: An enactive approach to social cognition, *Phenomenology and the Cognitive Sciences*, 6(4), 485–507.

[71] Iizuka, H. and Di Paolo, E. A. (2007). Toward Spinozist robotics: Exploring the minimal dynamics of behavioural preference. *Adaptive Behavior*, 15(4), 359–376.

[72] Hu, X-B., Di Paolo, E. A., Chen, W-H. (2007). Multi-airport capacity management: Genetic algorithm with receding horizon. *IEEE Transactions on Intelligent Transportation Systems*, 8(2), 254–263.

[73] Di Paolo, E. A. (2005). Autopoiesis, adaptivity, teleology, agency. *Phenomenology and the Cognitive Sciences*, 4(4), 429–452.

[74] Macinnes, I. and Di Paolo, E. A. (2006). The advantages of evolving perceptual cues. *Adaptive Behavior* 14(2), 147–156.

[75] Silver, M., and Di Paolo, E. A. (2006). Spatial factors favour the evolution of niche construction. *Theoretical Population Biology*, 70(4), 387–400.

[76] Suzuki, M., Floreano, D., and Di Paolo, E. A. (2005). Constraints on body movement during visual development affect the behavior of evolutionary robots. *Neural Networks*, 18(5/6), 657–666.

[77] Vickerstaff, R., and Di Paolo, E. A. (2005). Building neural models of path integration. *Journal of Experimental Biology*, 208, 3349–3366.

[78] Di Paolo, E. A. (2004). Unbinding biological autonomy: Francisco Varela's contributions to artificial life. *Artificial Life*, 10/3, 231–234.

[79] Di Paolo, E. A., and Harvey, I. (2004). Decisions and noise: The scope of evolutionary synthesis and dynamical analysis. *Adaptive Behavior*, 11(4), 284–288.

[80] Harvey, I. Di Paolo, E. A., Tuci, E. and Wood, R. (2004). Evolutionary robotics: A new scientific tool for studying cognition. *Artificial Life*, 11(1–2), 79–98.

[81] Rohfshagen, P. and Di Paolo, E. A. (2004). The topological origin of rhythm in asynchronous random Boolean networks. *BioSystems*, 73, 141–152.

[82] Di Paolo, E. A. (2003). Evolving spike-timing dependent plasticity for single-trial learning in robots. *Philosophical Transactions of the Royal Society of London A*, 361, 2299–2319.

[83] Di Paolo, E. A. (2002). Plastic mechanisms, multiple timescales, and lifetime adaptation. *Adaptive Behavior*, 10(3–4), 141–142.

[84] Di Paolo, E. A. (2002). Spike timing dependent plasticity for evolved robots. *Adaptive Behavior*, 10(3/4), 243–263.

[85] Wheeler, M., Bullock, S., Di Paolo, E., Noble, J., Bedau, M., Husbands, P., Kirby, S. and Seth, A. (2002). The view from elsewhere: Perspectives on ALife modelling. *Artificial Life*, 8(2), 87–100.

[86] Di Paolo, E. A. (2001). Rhythmic and non-rhythmic attractors in asynchronous random Boolean networks. *BioSystems*, 59(3), 185–195.

[87] Di Paolo, E. A. (2000). Ecological symmetry breaking can favour the evolution of altruism in an action-response game. *Journal of Theoretical Biology*, 203, 135–152.

[88] Di Paolo, E. A. (2000). Behavioral coordination, structural congruence and entrainment in a simulation of acoustically coupled agents. *Adaptive Behavior*, 8(1), 25–46.

[89] Di Paolo, E. A. (1997). An investigation into the evolution of communication. *Adaptive Behavior*, 6, 285–324.

Books

[1] Di Paolo, E. A., Heras-Escribano, M., Chemero, A., McGann, M., (eds) (2021). *Enaction and Ecological Psychology: Convergences and Complementarities*. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-88966-431-3, ISBN 978-2-88966-431-3.

[2] Di Paolo, E. A., Cuffari, E. C., and De Jaegher, H. (2018). *Linguistic Bodies: The Continuity between Life and Language*, MIT Press. ISBN: 9780262038164.

[3] Di Paolo, E. A., Buhrmann, T., and Barandiaran, X. E. (2017). *Sensorimotor life: An Enactive Proposal*, Oxford: Oxford University Press. ISBN: 9780198786849.

[4] Di Paolo, E. A. and De Jaegher, H. (eds.) *Towards an Embodied Science of Intersubjectivity: Widening the Scope of Social Understanding Research*, Lausanne: Frontiers Media, 2015. ISBN: 9782889195299.

[5] Vargas, P., Di Paolo, E. A. , Harvey, I., and Husbands, P. (eds.) *The Horizons of Evolutionary Robotics*, Cambridge, MA: MIT Press, 2014. ISBN: 9780262026765.

[6] Stewart, J., Gapenne, O., and Di Paolo, E. A. (eds.) *Enaction: Towards a New Paradigm for Cognitive Science*, Cambridge, MA: MIT Press, 2010. ISBN: 9780262014601.

Book Chapters

[1] Di Paolo, E. A. (2021). A concepção enativa da vida. In Ralph Ings Bannell, Mylene Mizrahi, Giselle Ferreira (eds.) *Deseducando a educao: Mentes, materialidades e metforas*. Rio de Janeiro, Ed. PUC-Rio, pp. 39?66.

[2] Di Paolo, E. A. (2019). Afterword: A Future for Jakob von Uexküll. In F. Michelini and K. Köchy (eds.) *Jakob von Uexküll and Philosophy: Life, Environments, Anthropology*. London: Routledge. pp. 252–256.

[3] Di Paolo, E. A. (2018). The enactive conception of life. In A. Newen, L. de Bruin and S. Gallagher (eds). *The Oxford Handbook of 4E Cognition*, Oxford: Oxford University Press. pp. 71–94.

[4] Di Paolo, E. A. and De Jaegher, H. (2017). Neither individualistic, nor interactionist. In Durt. C., Fuchs, T., and Tewes, C. (eds). *Embodiment, Enaction, and Culture: Investigating the Constitution of the Shared World*, Cambridge, MA: MIT Press. pp. 87–105.

[5] Di Paolo, E. (2016). Enactivismo. In *Diccionario Interdisciplinar Austral*, editado por Claudia E. Vanney, Ignacio Silva y Juan F. Franck. http://dia.austral.edu.ar/Enactivismo

[6] Di Paolo, E. A. (2014). Foreword. in M. Cappuccio and T. Froese (eds). *Enactive Cognition at the Edge of Sense-Making Making Sense of Non-Sense*, NYC: Palgrave, Macmillan.

[7] Di Paolo, E. A. and Thompson, E. (2014). The enactive approach, in L. Shapiro, ed., *The Routledge Handbook of Embodied Cognition*, London, New York: Routledge Press, pp. 68–78.

[8] Di Paolo, E. A. (forthcoming). "El enactivismo y la naturalización de la mente", in D. P. Chico and M. G. Bedia (eds) *Nueva ciencia cognitiva: Hacia una teoría integral de la mente*, Madrid: Plaza y Valdes Editores.

[9] Harvey, I. and Di Paolo, E. A., (2014). Evolutionary pathways, in P. Vargas, E. A. Di Paolo, I. Harvey and P. Husbands, *Horizons for Evolutionary Robotics*, Cambridge, MA: MIT Press, pp. 77–91.

[10] Vaughan, E., Di Paolo, E. A., and Harvey, I., (2014). Incremental evolution of an omni-directional biped for rugged terrain, in P. Vargas, E. A. Di Paolo, I. Harvey and P. Husbands, *Horizons for Evolutionary Robotics*, Cambridge, MA: MIT Press, pp. 237–278.

[11] Wheeler, M. and Di Paolo, E. A. (2011). Existentialism and cognitive science, in Reynolds, J., Woodward, A., and Joseph, F. (eds) *The Continuum Companion to Existentialism*, Continuum, pp. 241–259.

[12] Di Paolo, E. A., Rohde, M. and De Jaegher, H., (2010). Horizons for the Enactive Mind: Values, Social Interaction, and Play. In J. Stewart, O. Gapenne and E. A. Di Paolo (eds), *Enaction: Towards a New Paradigm for Cognitive Science*, Cambridge, MA: MIT Press, pp. 33–87.

[13] Di Paolo, E. A. (2010). Living Technology. In *Living Technology: 5 Questions*, Mark Bedau, Pelle Guldborg Hansen, Emily Parke, Steen Rasmussen (Eds), Automatic Press/VIP, pp. 67–76.

[14] Di Paolo, E. A. (2009). Overcoming autopoiesis: a enactive detour on the way from life to society. In R. Magalhaes, and R. Sanchez (Eds) *Autopoiesis in Organizations and Information Systems*, Elsevier, pp. 43–68.

[15] Bird, J. and Di Paolo, E. A. (2008). Gordon Pask and his maverick machines. In P. Husbands, O. Holland, and M. Wheeler (Eds) *The Mechanisation of Mind in History*, MIT Press, pp. 185–212.

[16] De Jaegher, H. and Di Paolo, E. A. (2008). Making sense in participation: An enactive approach to social cognition. In F. Morganti, A. Carassa, and G. Riva (Eds) *Enacting intersubjectivity: A cognitive and social perspective to the study of interactions*, IOS Press: Amsterdam, pp. 33–48.

[17] Hu, X., and Di Paolo, E. A. (2008). An efficient genetic algorithm with uniform crossover for the multi-objective airport gate assignment problem, in K. C. Tan, C. K. Goh and Y. S. Ong (eds) *Multi-Objective Memetic Algorithms*, Springer-Verlag, pp. 71–90.

[18] Hu, X., and Di Paolo, E. A. (2008). Genetic algorithms for the airport gate assignment problem: Linkage, representation and uniform crossover, (invited chapter) in Y.P. Chen and M.H. Lim (eds) *Linkage in Evolutionary Computation*, Springer-Verlag, pp. 361–388.

[19] Di Paolo, E. A. (2004). Organismically-inspired Robotics: Homeostatic adaptation and natural teleology beyond the closed sensorimotor loop, in K. Murase and T. Asakura (Eds) *Dynamical systems approach to embodiment and sociality*, Advanced Knowledge International, Adelaide, pp. 19–42.

[20] Noble, J., Di Paolo, E. A., and Bullock, S. (2001). Adaptive factors in the evolution of signalling systems. In A. Cangelosi and D. Parisi (Eds) *Simulating the Evolution of Language*, Springer Verlag, London, pp. 53–78.

Conference Papers in Proceedings, Refereed

[1] Arandia, I. R. and Di Paolo, E. A. (2021). Placebo from an enactive perspective. 3rd International Conference of the Society for Interdisciplinary Placebo Studies (SIPS), 26-28 May, 2021, University of Maryland, Baltimore, USA.

[2] Arandia, I. R. and Di Paolo, E. A. (2021). Social interaction and not just social skills affect placebo phenomena. 3rd International Conference of the Society for Interdisciplinary Placebo Studies (SIPS), 26-28 May, 2021, University of Maryland, Baltimore, USA.

[3] Cuffari, E. C., Di Paolo, E. A., and De Jaegher, H. (2021). Enacting hope. 14th Biennial Radical Philosophy Association Conference: Facing Catastrophe: Environment, Technology, and Media, November 11-13, 2021, San Jose State University, San Jose, California, USA.

[4] Bermejo F., Di Paolo, E. A., Gilberto, L. G., Lunati, V., and Barrios, M. V. (2019). Efecto disruptivo generado por la reversión de las claves auditivas. XVII Reunión Nacional y VI Encuentro Internacional de la Asociación Argentina de Ciencias del Comportamiento, August 28–30, 2019, Posadas, Argentina.

[5] Aguilera, M. and Di Paolo, E. A. (2018). Integrated information and autonomy in the thermodynamic limit. In Proceedings of ALife 2018, The 2018 International Conference on Artificial Life, MIT Press. July 23–27, 2018, Tokyo, Japan.

[6] Bermejo F., Di Paolo E. A., Arias C. (2016). Listening to a world transformed: Perception in an inverted acoustic field. Artificial Life XV, The 15th International Conference on the Synthesis and Simulation of Living Systems, 4-8 July, 2016, Cancun, Mexico.

[7] Hu, X-B, Liao, J-Q, Di Paolo, E. A. (2016). A simulation study on air traffic control strategies. 12th World Congress on Intelligent Control and Automation (WCICA), June 12-15, 2016, Guilin, China, IEEE, pp. 1577–1583. DOI: 10.1109/WCICA.2016.7578538.

[8] Bermejo F., Lunati V., Hüg M. X., Di Paolo E. A., Arias C. (2015). Reconocer figuras geométricas con un dispositivo de sustitución sensorial. XV Reunión Nacional y IV Encuentro Internacional de la Asociación Argentina de Ciencias del Comportamiento y II Congreso Argentino de Biología del Comportamiento. 26–28 August 2015, Tucumán, Argentina.

[9] Buhrmann, T. and Di Paolo, E. A. (2014). Non-representational sensorimotor knowledge. In A. P. del Pobil et al. (Eds.): From Animals to Animats 13, Proceedings of the 13th International Conference on Simulation of Adaptive Behavior, SAB 2014, LNAI 8575, pp. 21–31, NY, Springer Verlag.

[10] Liao, J. Q., Hu, X. B., Wang, M., Leeson, M. S., Hines, E. L., Di Paolo, E. (2012). A ripple-spreading network model for the study of infectious disease transmission. *5th International Conference on BioMedical Engineering and Informatics*. Chongqing, pp. 1004–1010. https://doi.org/10.1109/BMEI.2012.6513120.

[11] Barandiaran, X. and Di Paolo, E. A. (2011) Modelling sensorimotor habits with neuro-robotics: A reappraisal of the habit concept in psychology, in ESCOP 2011, 17th Meeting of the European Society for Cognitive Psychology, Donostia, Spain, 29 Sept 2 Oct 2011.

[12] Kyselo, M. and Di Paolo, E. A. (2010) Through the Enactive Eye–Locked-in Syndrome as a Challenge for Embodied Cognition, 10th Biannual Conference of the German Society for Cognitive Science, KogWis 2010, Postdam, October 3 - 6 , 2010.

[13] Egbert, M., Barandiaran, X and Di Paolo, E. A. (2010). Behavioral Metabolution: Metabolism based behavior enables new forms of adaptation and evolution Artificial Life XII, The 12th International Conference on the Synthesis and Simulation of Living Systems, 19-23 August, 2010, Odense, Denmark, pp. 213–220..

[14] Hu, X-B, Wang, M., Leeson, M. S., Hines, E. L. and Di Paolo, E. A. (2010) A Review on Ripple-Spreading Genetic Algorithms for Combinatorial Optimization Problems, In ICCI 2010, The 9th IEEE International Conference on Cognitive Informatics, July 7-9, 2010, Tsinghua University, Beijing, China.

[15] Barandiaran, X. and Di Paolo. E. A. (2010) Homeostatic plasticity in robots. 4th International Conference on Cognitive Systems. CogSys, 2010, ETH Zurich, Switzerland, Jan 27–28, 2010.

[16] Froese, T. and Di Paolo, E. A. (2009) Toward minimally social behavior: Social psychology meets evolutionary robotics, in Kampis, G., Karsai, I and Szathmary, E. (eds) Advances in Artificial Life Proceedings of the 10th European Conference on Artificial Life, ECAL09, Budapest, September 13-16, 2009, LNAI 5777, Springer Verlag, pp. 426–433.

[17] Manicka, S. and Di Paolo, E. A. (2009) Local ultrastability in a real system based on programmable springs in Kampis, G., Karsai, I and Szathmary, E. (eds) Advances in Artificial Life Proceedings of the 10th European Conference on Artificial Life, ECAL09, Budapest, September 13-16, 2009, LNAI 5777, Springer Verlag, pp. 91–98.

[18] Egbert, M., Di Paolo, E. A. and Barandiaran, X. (2009) Chemo-ethology of a adaptive protocell: Sensor-less sensitivity to implicit viability conditions in Kampis, G., Karsai, I and Szathmary, E. (eds) Advances in Artificial Life Proceedings of the 10th European Conference on Artificial Life, ECAL09, Budapest, September 13-16, 2009, LNAI 5777, Springer Verlag, pp. 248–255.

[19] Hu, X-B, and Di Paolo, E., (2009). A ripple-spreading genetic algorithm for the airport gate assignment problem. IEEE Congress on Evolutionary Computation, CEC, 2009, Trondheim, Norway, 18-21 May, 2009, pp. 1857–1864.

[20] Grespan, L., Froese, T., Di Paolo, E. A., Seth, A. K., Spiers, A., and Bigge, W. (2008). Investigating the role of movement in the constitution of spatial perception using the Enactive Torch. in: E. Ruffaldi & M. Fontana (eds.), Enactive/08: Proceedings of the 5th International Conference on Enactive Interfaces, Pisa, Italy, 19–21 November: Edizioni ETS, pp. 105–110.

[21] Egbert, M. and Di Paolo, E. A. (2008). Mechanisms of Adaptation to Periodic Environmental Change. Epigenetics Robotics 2008, Brighton, UK.

[22] Barandiaran, X. and Di Paolo, E. A. (2008). Artificial mental life: The disjoint continuity between life and mind (abstract). In S. Bullock, J. Noble, R. A. Watson, and M. A. Bedau (Eds.) Proceedings of the 11th International Conference on Artificial Life, Alife XI, Winchester, UK, MIT Press, Cambridge, MA, p. 747.

[23] Di Paolo, E. A. (2008). Life in time: The missing temporal dimension in autopoiesis (abstract). In S. Bullock, J. Noble, R. A. Watson, and M. A. Bedau (Eds.) Proceedings of the 11th International Conference on Artificial Life, Alife XI, Winchester, UK, MIT Press, Cambridge, MA, p. 761.

[24] Rohde, M. and Di Paolo, E. A. (2008). Evolutionary robotics models in the interdisciplinary study of embodied time perception (abstract). In S. Bullock, J. Noble, R. A. Watson, and M. A. Bedau (Eds.) Proceedings of the 11th International Conference on Artificial Life, Alife XI, Winchester, UK, MIT Press, Cambridge, MA, p. 798.

[25] Vargas, P., Di Paolo, E. A. and Husbands, P. (2008). A study of GasNets spatial embedding in a delayed response task. In S. Bullock, J. Noble, R. A. Watson, and M. A. Bedau (Eds.) Proceedings of the 11th International Conference on Artificial Life, Alife XI, Winchester, UK, MIT Press, Cambridge, MA, pp. 640–647.

[26] Buckley, C., Fine, P. Bullock, S. and Di Paolo, E. A. (2008). Stability of coordination requires mutuality of interaction in a model of embodied agents. From Animats to Animals 10, The Tenth International Conference on the Simulation of Adaptive Behavior, Osaka, Japan, July 7–10, 2008, Springer-Verlag, pp. 103–112.

[27] Fernandez-Leon, J. and Di Paolo, E. A. (2008) Neural noise induces the evolution of robust behaviour by avoiding non-functional bifurcations. From Animats to Animals 10, The Tenth International Conference on the Simulation of Adaptive Behavior, Osaka, Japan, July 7–10, 2008, Springer-Verlag, pp. 32–41.

[28] Froese, T. and Di Paolo, E. A. (2008). Stability of coordination requires mutuality of interaction in a model of embodied agents. From Animats to Animals 10, The Tenth International Conference on the Simulation of Adaptive Behavior, Osaka, Japan, July 7–10, 2008, Springer-Verlag, pp. 52–61.

[29] Iizuka, H. and Di Paolo, E. A. (2008). Extended homeostatic adaptation: Improving the link between internal and behavioural stability. From Animats to Animals 10, The Tenth International Conference on the Simulation of Adaptive Behavior, Osaka, Japan, July 7–10, 2008, Springer-Verlag, pp. 1–11.

[30] Rohde, M. and Di Paolo, E. A. (2008). Embodiment and perceptual crossing in 2D: A comparative evolutionary robotics study. From Animats to Animals 10, The Tenth International Conference on the Simulation of Adaptive Behavior, Osaka, Japan, July 7–10, 2008, Springer-Verlag, pp. 83–92.

[31] Froese, T. and Di Paolo, E. A. (2008). An enactive approach to social cognition: Detection of social contingency or stability of interaction dynamics? euCognition Fourth Six-Monthly Meeting, 10–11 January 2008, Venice. (Winner of best paper competition).

[32] Hu, X-B., Di Paolo E. A. and Barnett, L. (2008) Ripple-spreading model and genetic algorithm for random complex networks: Preliminary study, The World Congress on Computer Intelligence (WCCI2008), Hong Kong, China, 01-06 June 2008.

[33] Di Paolo, E. A., (2007). Play, enaction and the dialectics of worldmaking. In Toward a Science of Consciousness 2007, Budapest, Hungary, July 23–26, 2007.

[34] Dyke, J., McDonald-Gibson, J., Di Paolo, E. A. and Harvey, I. (2007). Increasing complexity can increase stability in a self-regulating ecosystems. In F. Almeida e Costa, L. M. Rocha, E. Costa, I. Harvey and A. Coutinho (Eds), Advances in Artificial Life, 9th European Conference on Artificial Life ECAL 2007. LNAI 4648, Berlin: Springer-Verlag, pp. 133–142.

[35] Fernandez-Leon, J. and Di Paolo, E. A. (2007). Neural uncertainty and sensorimotor robustness. In F. Almeida e Costa, L. M. Rocha, E. Costa, I. Harvey and A. Coutinho (Eds), Advances in Artificial Life, 9th European Conference on Artificial Life ECAL 2007. LNAI 4648, Berlin: Springer-Verlag, pp. 786–795.

[36] Fine, P., Di Paolo, E. A., Izquierdo, E. (2007). Adapting to your body. In F. Almeida e Costa, L. M. Rocha, E. Costa, I. Harvey and A. Coutinho (Eds), Advances in Artificial Life, 9th European Conference on Artificial Life ECAL 2007. LNAI 4648, Berlin: Springer-Verlag, pp. 203–212.

[37] Hu, X-B., and Di Paolo, E. A., (2007). A genetic algorithm based on complex networks theory for the management of airline route networks. In Krasnogor, N.; Nicosia, G.; Pavone, M.; Pelta, D. (Eds.) Nature Inspired Cooperative Strategies for Optimization, Springer-Verlag, vol 129, 495–505, Proceedings of NICSO2007, Acireale, Sicily (Italy), November 8-10 2007.

[38] Hu, X-B., and Di Paolo, E. A., (2007). A hybrid genetic algorithm for the travelling salesman problem. In Krasnogor, N.; Nicosia, G.; Pavone, M.; Pelta, D. (Eds.) Nature Inspired Cooperative Strategies for Optimization, Springer-Verlag, vol 129, 357–367, Proceedings of NICSO2007, Acireale, Sicily (Italy), November 8-10 2007.

[39] Hu, X-B. and Di Paolo, E. A., (2007). An efficient genetic algorithm with uniform crossover for the multi-objective airport gate assignment problem, in 2007 IEEE Congress on Evolutionary Computation, CEC 2007, Singapore, September 25–28, 2007, pp. 55–62.

[40] Iizuka, H. and Di Paolo, E. A. (2007). Minimal agency detection of embodied agents. In F. Almeida e Costa, L. M. Rocha, E. Costa, I. Harvey and A. Coutinho (Eds), Advances in Artificial Life, 9th European Conference on Artificial Life ECAL 2007. LNAI 4648, Berlin: Springer, pp. 485–494.

[41] Rohde, M. and Di Paolo, E. A. (2007). Adaptation to sensory delays. An evolutionary robotics model of an empirical study. In F. Almeida e Costa, L. M. Rocha, E. Costa, I. Harvey and A. Coutinho (Eds), Advances in Artificial Life, 9th European Conference on Artificial Life ECAL 2007. LNAI 4648, Berlin: Springer-Verlag, pp. 193–202.

[42] Vargas, P., Di Paolo, E. A. and Husbands, P. (2007). Preliminary investigations on the evolvability of a non-spatial GasNet model. In F. Almeida e Costa, L. M. Rocha, E. Costa, I. Harvey and A. Coutinho (Eds), Advances in Artificial Life, 9th European Conference on Artificial Life ECAL 2007. LNAI 4648, Berlin: Springer-Verlag, pp. 966–975.

[43] Wood, R. and Di Paolo, E. A. (2007). New models for old questions: Evolutionary robotics and the 'A not B' error. In F. Almeida e Costa, L. M. Rocha, E. Costa, I. Harvey and A. Coutinho (Eds), Advances in Artificial Life, 9th European Conference on Artificial Life ECAL 2007. LNAI 4648, Berlin: Springer-Verlag, pp. 1141–1150.

[44] Iizuka, H., and Di Paolo, E. A., (2006). Are you interacting with me? The embodied dynamics of minimal agency detection. Last minute abstract From Animats to Animals 9 The Ninth International Conference on the Simulation of Adaptive Behavior (SAB'06) 25 - 29 September 2006, CNR, Roma, Italy .

[45] Rohde, M. and Di Paolo, E. A. (2006). An evolutionary robotics simulation of human minimal social interaction. Workshop on Behaviour and Mind as a Complex Adaptive System, SAB'06, Roma, Italy, 30 September 2006.

[46] Wood, R., and Di Paolo, E. A. (2006). Learn to live with yourself: A developmental perspective on morphology and motion. Workshop on Morphology, Motion and Cognition, Alife X, 3–4 June, 2006 Bloomington, Indiana, USA.

[47] De Jaegher, H., Wood, R., and Di Paolo, E. A. (2006). How does interactional coordination come about? Probing situated social cognition. Situated Cognition: Perspectives from Phenomenology and Science, Durham University, UK 18–20 August 2006.

[48] Buehrmann, T., and Di Paolo, E. A. (2006). Biological actuators are not just springs: Investigating muscle dynamics and control signals. From Animats to Animals 9 The Ninth International Conference on the Simulation of Adaptive Behavior (SAB'06) 25–29 September 2006, CNR, Roma, Italy, S. Nolfi et al. (eds), Springer, Berlin Heidelberg, LNAI 4095, pp 89–100.

[49] Fine, P. A., Di Paolo, E. A., and Philippides, A. O., (2006). Spatially constrained networks and the evolution of modular control systems. From Animats to Animals 9 The Ninth International Conference on the Simulation of Adaptive Behavior (SAB'06) 25–29 September 2006, CNR, Roma, Italy, S. Nolfi et al. (eds), Springer, Berlin Heidelberg, LNAI 4095, pp 546–557.

[50] Rohde, M., and Di Paolo, E. A. (2006). Evolutionary robotics and perceptual supplementation: Dialogue between two minimalist approaches. AI'50. 50th Anniversary Summit of Artificial Intelligence. Monte Verita, Switzerland, 9–14 July, 2006.

[51] Hu, X., and Di Paolo, E. A. (2006). Genetic algorithms: artificial selection via natural selection. 6th World Congress on Intelligent Control and Automation, WCICA06, DaLian, China.

[52] Macinnes, I., and Di Paolo, E. A. (2005). The advantages of evolving perceptual cues. Active agents and their environments as dynamical systems. (Activate.d) Workshop at ECAL 2005.

[53] Rohde, M. and Di Paolo, E. A. (2005). t for two. Linear synergy advances the evolution of directional pointing behaviour. In M. Capcarrere et al. (Eds) ECAL 2005, LNAI 3630 Springer Verlag, pp. 262–271.

[54] Izquierdo-Torres, E., and Di Paolo, E. A. (2005). Is an embodied system ever purely reactive? In M. Capcarrere et al. (Eds) ECAL 2005, LNAI 3630 Springer Verlag, pp. 252–261.

[55] Vickerstaff, R. J., and Di Paolo, E. A. (2005). An evolved agent performing efficient path integration based homing and search. In M. Capcarrere et al. (Eds) ECAL 2005, LNAI 3630 Springer Verlag, pp. 221–230.

[56] Macinnes, I., and Di Paolo, E. A. (2005). From the inside looking out: self-extinguishing perceptual cues and the constructed worlds of animats. In M. Capcarrere et al. (Eds) ECAL 2005, LNAI 3630 Springer Verlag, pp. 11–20.

[57] Suzuki, M., Floreano, D., and Di Paolo, E. A. (2005) Constraints on body movement during visual development affect the behavior of evolutionary robots. *Proceedings of the IEEE International Joint Conference on Neural Networks IJCNN'2005.* Montréal, Canada, July 31st–August 4th, Vol 5, pp. 2778–2783

[58] Vaughan, E., Di Paolo, E. A., and Harvey, I. (2005). The tango of a load-balancing biped. In M. A. Armada and P. de González Santos *Climbing and Walking Robots Proceedings of the 7th International Conference CLAWAR 2004* Madrid, 22–24 Sept. 2004, Springer, pp. 813–824.

[59] Harvey, I., Vaughan, E., and Di Paolo, E. A. (2004). Time and motion studies: The dynamics of cognition, computation and humanoid walking. HART 2004, Fourth International Symposium on Human and Artificial Intelligence Systems: From Control to Autonomy. University of Fukui, Japan. 5–6 December 2004.

[60] Buehrmann, T., and Di Paolo, E. A. (2004). Closing the loop: Evolving a model-free visually guided robot arm. Ninth International Conference on the Simulation and Synthesis of Living Systems, Alife 9. Boston, Massachusetts, 12 - 15 August 2004, J. Pollack, M. Bedau, P. Husbands, T. Ikegami and R. Watson. (eds), pp. 63–68, MIT Press.

[61] Fernando, C., and Di Paolo, E. A. (2004). The Chemoton: A model for the origin of long RNA templates. Ninth International Conference on the Simulation and Synthesis of Living Systems, Alife 9. Boston, Massachusetts, 12 - 15 August 2004, J. Pollack, M. Bedau, P. Husbands, T. Ikegami and R. Watson. (eds), pp. 1–8, MIT Press.

[62] Macinnes, I., and Di Paolo, E. A. (2004). Crawling out of the simulator: Evolving real robot morphologies using cheap, reusable modules. Ninth International Conference on the Simulation and Synthesis of Living Systems, Alife 9. Boston, Massachusetts, 12 - 15 August 2004, J. Pollack, M. Bedau, P. Husbands, T. Ikegami and R. Watson. (eds), pp. 94–99, MIT Press.

[63] Vaughan, E., Di Paolo, E. A., and Harvey, I. (2004). The evolution of control and adaptation in a 3D powered passive dynamic walker. Ninth International Conference on the Simulation and Synthesis of Living Systems, Alife 9. Boston, Massachusetts, 12 - 15 August 2004, J. Pollack, M. Bedau, P. Husbands, T. Ikegami and R. Watson. (eds), pp. 139–144, MIT Press.

[64] Di Paolo, E. A. (2002). Evolving Spike-Timing Dependent Plasticity for Robot Control. EPSRC/BBSRC International Workshop: Biologically-inspired Robotics, The Legacy of W. Grey Walter, WGW'2002. HP Labs, Bristol, 14–16 August 2002, pp. 142–149.

[65] Di Paolo, E. A. (2002). Fast homeostatic oscillators induce radical robustness in robot performance. In, B. Hallam, D. Floreano, J. Hallam, G. Hayes, and J-A. Meyer, *From Animals to Animats 7, Proceedings of the Seventh International Conference on Simulation of Adaptive Behavior*, pp. 303–305, MIT Press.

[66] Di Paolo, E. A. (2001). Artificial Life and Historical Processes. In *Advances in Artificial Life: Proceedings of the 6th European Conference on Artificial Life*, Prague, J. Kelemen, P. Sosik (eds.), Springer-Verlag, pp. 649–658.

[67] Di Paolo, E. A. (2000). Homeostatic adaptation to inversion of the visual field and other sensorimotor disruptions. *From Animals to Animats 6, Proceedings of the Sixth International Conference on Simulation of Adaptive Behavior*, Sep 2000, J-A. Meyer, A. Berthoz, D. Floreano, H. Roitblat and S. Wilson. (eds), pp. 440–449, MIT Press.

[68] Di Paolo, E. A. (2000). Searching for rhythms in asynchronous Boolean networks. *Artificial Life VII: Proceedings of the Seventh International Conference*, M. Bedau, J. S. McCaskill, N. H. Packard, and S. Rasmussen (eds), pp. 73–80, MIT Press.

[69] Di Paolo, E. A., Noble, J. and Bullock, S. (2000). Simulation models as opaque thought experiments. *Artificial Life VII: Proceedings of the Seventh International Conference*, M. Bedau, J. S. McCaskill, N. H. Packard, and S. Rasmussen (eds), pp. 497–506, MIT Press.

[70] Di Paolo, E. A. (1999). A little more than kind and less than kin: The unwarranted use of kin selection in spatial models of communication. In D. Floreano, J-D. Nicoud, and F. Mondada, editors, *Advances in Artificial Life: Proceedings of the 5th European Conference on Artificial Life*, pp. 504–513, Springer Verlag.

[71] Di Paolo, E. A. (1998). Assessing the role of social development in the evolution of cooperation. In R. Pfeifer, B. Blumberg, J-A. Meyer and S. Wilson (eds) Fifth International Conference on Simulation of Adaptive Behavior; Zürich, August 1998, pp. 453–458, MIT Press.

[72] Di Paolo, E. A. (1998). Behavioural coordination in acoustically coupled agents. ICANN'98 8th International Conference on Artificial Neural Networks, Skövde, Sweden, 2-4 September 1998, Special Module on Autonomous Robotics and Adaptive Behavior, Nicklasson, L, Bodén, M. and Ziemke, T. (eds.) Springer, London, pp. 1097–1102.

[73] Di Paolo, E. A. (1997). Social coordination and spatial organization: steps towards the evolution of communication. In Husbands, P. and Harvey, I., editors, *Proceedings of the 4th European Conference on Artificial Life*, pp. 464–473, MIT Press.

Invited Conference Presentations

[1] Di Paolo, E. A. (2022). The Dialectics of the Abstract and the Concrete in the Enactive Approach. *International Friends of Ilyenkov Symposium ifi.2022*, London, 10?12, November, 2022. Keynote speaker.

[2] Di Paolo, E. A. (2022). Enactive Sense-Making = Agent-making + Environment-Making, *2022 Cycle on the Anthropocene*, Centro Internazionali di Studi Umanistici "Umberto Eco", University of Bologna, Italy. 16 June 2022. Invited speaker.

[3] Di Paolo, E. A. (2022). Enaction and the Dialectics of Nature. *Varela International Symposium: Mind in Life: Interdependence and Enaction.* Upaya Zen Center and Institute and Mind and Life Europe. May 28-29, 2022. Invited Speaker.

[4] Di Paolo, E. A. (2021). Enactive conceptions of agency: Minimal, sensorimotor, and linguistic. Keynote speaker. *The Second International School on Philosophy of Cognitive Science, 4E Approaches*, 16–17 November 2021, Sharif University of Technology, Tehran, Iran.

[5] Di Paolo, E. A., (2021). Invited speaker. "Organism: A Meshwork of Selfless Selves? (1991) and "Patterns of Life? (1997) by Francisco Varela. Ouroboros Seminars 2021 Seminars. Metanoia (Slovenia) and Mind & Life Institute Europe. 19 May 2021.

[6] Di Paolo, E. A., (2021). Invited speaker. "El concepto enactivo de agencia" Seminar for the "Cultura material, agencia y prcticas" project. Departamento de Filosofa, Facultad de Humanidades, Universidad Nacional de Mar del Plata, Argentina, 13 May 2021.

[7] Di Paolo, E. A., (2020). Invited online seminar. Arrows that come and go: Picturing organisms and their environments. ENSO Seminar Series, March 5, 2020.

[8] Di Paolo, E. A., (2019). Invited speaker (w. Elena C. Cuffari and Hanne De Jaegher). Linguistic bodies: development, autism, languaging. In Book Symposium on Linguistic Bodies at the 2mC&L, 2nd Meeting Cognition & Language, Uberlândia, MG, Brazil 06?08 Nov 2019.

[9] Di Paolo, E. A., (2019). Invited speaker. (w. Elena C. Cuffari and Hanne De Jaegher). Linguistic bodies: context, enaction, model. In Book Symposium on Linguistic Bodies at the 2mC&L, 2nd Meeting Cognition & Language, Uberlândia, MG, Brazil 06?08 Nov 2019.

[10] Di Paolo, E. A., (2019). Invited speaker. Bordercrossings: bodies and ecologies in the enactive approach. Workshop on Enaction and Ecological Psychology. Overlaps, tensions, complementarities. San Sebastian, July 9?10 2019.

[11] Di Paolo, E. A., (2018). Invited speaker. The enactive approach and the interactive brain hypothesis. The Basque Center on Cognition, Brain and Language (BCBL) External Speaker Series. October 25, 2018.

[12] Di Paolo, E. A., (2018). Invited speaker. From Sensorimotor Agency to Linguistic Bodies: An Enactive Roadmap, Conference on Time, the Body and the Others, Heidelberg, September 13–15 2018.

[13] Di Paolo, E. A., (2018). Keynote speaker. Dynamics, materiality, and concreteness: An enactive perspective. 48th Annual Conference of the Jean Piaget Society, The Dynamics of Development: Process, (Inter-)Action, & Complexity, Amsterdam, 31 May–2 June, 2018.

[14] Di Paolo, E. A., (2018). 2018. Invited speaker. The dialectics of embodiment and the enactive conception of life. IV Bordeaux-San Sebastian Workshop on Philosophy of Biology, Medicine and Cognitive Sciences, San Sebastin, Spain, May 3–4, 2018.

[15] Di Paolo, E. A., (2018). Invited speaker. The dialectics of acting: agency, performance, and materiality from an enactive perspective. Conference on Enactivism: Theory and Performance, Department of Philosophy, University of Memphis, 15–17 March 2018.

[16] Di Paolo, E. A., (2017). Invited online seminar. The Zero Mode of Human Activity, ENSO Seminar Series, June 1, 2017.

[17] Di Paolo, E. A., (2016). Invited speaker. "The enactive conception of life." Workshop Interidentidad, UPV/EHU, Zumaia, Spain, 28–29 November 2016.

[18] Di Paolo, E. A., (2016). Keynote speaker. "Gilbert Simondon and the enactive conception of life and mind", Alife XV, The Fifteenth International Conference on the Synthesis and Simulation of Living Systems, Cancun, Mexico, 4–8 July 2016.

[19] Di Paolo, E. A., (2016). "The enactive notion of life", Keynote speaker. Workshop on The Biological Foundations of Enactivism, Cancun, Mexico, 4 July 2016.

[20] Di Paolo, E. A., (2016). Agencialidad desde la perspectiva enactiva", Instituto de Investigaciones en Ciencias Humanas y Sociales (IdHICS/Fahce/UNLP/Conicet), La Plata, Argentina, 18 April 2016.

[21] Di Paolo, E. A., (2016). "La hiptesis del cerebro interactivo: Avances recientes", Facultad Latinoamericana de Ciencias Sociales, (FLACSO), Buenos Aires, 14 April 2016.

[22] Di Paolo, E. A., (2016). "Participatory Object Perception", Sociedad Argentina de Anlisis Filosófico (SADAF), Buenos Aires, 5 April 2016.

[23] Di Paolo, E. A., (2016). "Participatory Object Perception", IAS-Research Seminar, UPV/EHU, San Sebastián, 26 February 2016

[24] Di Paolo, E. A., (2014). "Enactivism Moving forward: Language and the Human Self". Conference on Enacting Culture: Embodiment, Interaction and the Development of Human Culture, Heidelberg, October 15-17, 2014.

[25] Di Paolo, E. A., (2014). "Participatory sense-making and heteronomies", Workshop on Interacting Complexity: Cognition and Communication in Conflict Transformation, San Sebastián, May 1-3, 2014.

[26] Di Paolo, E. A., (2013). "El cuerpo en el enactivismo y otros enfoques", Sociedad Argentina de Análisis Filosófico (SADAF), Buenos Aires, 21 May 2013.

[27] Di Paolo, E. A., (2013). "La hipótesis del cerebro interactivo: el rol constitutivo de las interacciones sociales en la intersubjetividad", Facultad Latinoamericana de Ciencias Sociales, (FLACSO), Buenos Aires, 20 May 2013.

[28] Di Paolo, E. A., (2013)."Intersubjetividad y participación: La cognición social corporizada desde el paradigma enactivo" I Encuentro de Filosofa de las Ciencias Cognitivas y del Comportamiento, Universidad Nacional de Crdoba, 14 May 2013.

[29] Di Paolo, E. A., (2013)."El enfoque enactivo en ciencias cognitivas: Hacia un naturalismo no funcionalista y corporizado" I Encuentro de Filosofa de las Ciencias Cognitivas y del Comportamiento, Universidad Nacional de Crdoba, 13 May 2013.

[30] Di Paolo, E. A., (2013). "Interactive time-travelling". TESIS 1st International Conference. Enactive and Phenomenological Approaches to Intersubjectivity, Copenhangen, Feb 6–8.

[31] Di Paolo, E. A., (2013). "The enactive body". Seminar 'From perceptual interaction to extended cognition' Université de Technologie de Compiègne, Jan 22-25.

[32] Di Paolo, E. A., (2013). "Not one, not two (reloaded)". II ReteCog Workshop. Interaction. University of Zaragoza, Jan 17-19

[33] Di Paolo, E. A., (2012). "Agency, incorporation and non-individuals: Time and precariousness in networked individuality". Workshop on Autonomy and Individual Organisms in Biology, San Sebastián, Oct 27-28.

[34] Di Paolo, E. A., (2012). "The enactive body–Where life, mind and society intersect", Mind and Life Summer Research Institute, Garrison Institute, Garrison, New York, June 16-22.

[35] Di Paolo, E. A., (2012). "Walking circles around a problem: The parallax epistemology of enactivism", Embodying intersubjectivity research TESIS summer school, San Sebastián, May 14–18.

[36] De Jaegher, H. and Di Paolo, E. A., (2011). "Participatory sense-making", Intersubjectivity from Birth for Life: A Celebration for Colwyn Trevarthen, University of Edinburgh, Oct 15, 2011.

[37] Di Paolo, E. A., (2011). "The Future of the Embodied Mind", Introductory talk at The Future of the Embodied Mind Summer School, 5–6 Sept. 2011, San Sebastián, Spain.

[38] Di Paolo, E. A., (2011). "What is the enactive body?", Collegium for Advanced Study of Picture Act and Embodiment, Berlin.

[39] Di Paolo, E. A., (2011). "The mind in-between: Can social interaction constitute social cognition?"' The Whitehead lectures in Cognition, Computation and Culture, Goldsmiths College, London.

[40] Di Paolo, E. A., (2010). "The social invisible", Embodiment, Intersubjectivity and Psychopathology, International Conference, University of Heidelberg 30 Sept–2 Oct 2010.

[41] Di Paolo, E. A., (2010). "How the mind shapes the body", Enaction School 2010, 27th June–3rd July 2010. Ballykisteen, Co. Tipperary, Ireland.

[42] Di Paolo, E. A., (2010). "Extended Life", First European Summer School on Life & Cognition, Miramar Palace, Donostia-San Sebastián, 22nd–26th June, 2010.

[43] Di Paolo, E. A., (2010). "Lo hemos resuelto pero no sabemos cómo", GIGA group seminar, University of Zaragoza, Spain, May 2010.

[44] Di Paolo, E. A., (2010). "El rol del cuerpo en el estudio de la mente", Conferencias iberCaja, Zaragoza, Spain, May 2010.

[45] Di Paolo, E. A., (2010). "El enfoque enactivo en ciencias cognitivas", Centro Cultural iberCaja, Huesca, Spain, May 2010.

[46] Di Paolo, E. A., (2010). "The mind in-between: Can social interaction constitute social cognition?" COGS Seminar, University of Sussex, Feb, 2010.

[47] Di Paolo, E. A., and De Jaegher, H. (2010). "Does social interaction constitute social cognition?" Conference on Dynamic models of social interaction, University of Aarhus, Jan 2010.

[48] Di Paolo, E. A., (2009). "From sensorimotor coordination to enaction: Agency, sense-making and sociality as horizons for embodied cognition", Keynote lecture, EUCogII Members Conference Oct. 10-11 2009, Hamburg.

[49] Di Paolo, E. A., (2009). "Enactive perception: Beyond the sensorimotor approach", Philosophy of Perception Conference, University of Tokyo, Japan, March 5-7th, 2009.

[50] De Jaegher, H. and Di Paolo, E. A., (2009) "Implications of the enactive definition of the social", Workshop on Enacting Intersubjectivity, Lugano, Switzerland, February 13-14th, 2009.

[51] Di Paolo, E. A., (2008) "Agency and time", Agency Workshop, Kyoto, Japan, July 17th, 2008.

[52] Di Paolo, E. A., (2007) "Escape from pervasive individualism: Why should embodied cognition seriously study the collective dynamics of social interaction?" 9th European Conference on Artificial Life, ECAL2007, September 10–14, 2007, Lisbon, Portugal. Keynote Speaker.

[53] Di Paolo, E. A., (2007) "Groovedigging: an Ashbyan Principle for the Dynamics of Development". Workshop on Dynamical Approaches to Development: Beyond the Metaphor. 9th European Conference on Artificial Life, ECAL2007, September 9 –10, 2007, Lisbon, Portugal.

[54] Di Paolo, E. A., (2007) "Enaction begins in autonomy". CNRS Summer School: Enaction and Cognitive Science. Organized by the Association pour la Recherche Cognitive (ARCo), 6 September to 12 September 2007–Fréjus, France.

[55] Di Paolo, E. A., (2006) "Enactive sense-making, play and the receding horizon of representationalism". Workshop on Representation and action in human beings and machines. Università degli Studi di Siena, Siena, Italy, 20–22 October 2006.

[56] Di Paolo, E. A., (2006) "Sense-making and agency: Being and doing intertwined". SAB06 Workshop: Behaviour and Mind as a Complex Adaptive System. Roma, Italy, 30 Sept. 2006.

[57] Di Paolo, E. A., (2006) "Enactive perception: Lessons from evolutionary robotics". Perceiving and Being Perceived in Digital Environments, Cognitive Technologies Program (FMSH–EDF R&D). Paris, 12 June 2006.

[58] Di Paolo, E. A., (2006) "Horizons for the enactive mind: Values, social interacion, and play". CNRS Summer School: Constructivism and Enaction: A New Paradigm for Cognitive Science. Organized by the Association pour la Recherche Cognitive (ARCo) 29 May to 03 June 2006 - Ile d'Oléron, France.

[59] Di Paolo, E. A., (2006) "Playing to be mindful (remedies for chronic boxology)". AISB'06 Symposium on Machine Consciousness. University of Bristol.

[60] Di Paolo, E. A., (2006) "Challenges for artificial cognitive systems". Artificial Cognitive Systems–Models and Paradigms. A preparatory Workshop for the EU Seventh Framework Programme (FP7) 2007-2013 for research and technology development. Luxembourg, 20-21 March 2006.

[61] Di Paolo, E. A., (2006) "Autopoiesis, Adaptivity, and Sense-making: towards a biology of values". NUCOG/PHITECO Seminar Cognition, Motivation, Action. Université de Technologie de Compiègne.

[62] Di Paolo, E. A., Bullock, S. and Noble, J. (2005) "The role of the individual in individual-based models". British Ecological Society Annual Meeting 5–7 September 2005. University of Hertfordshire.

[63] Di Paolo, E. A., (2004) Beyond robot movement, towards robot action. Erasmus Seminar *Savoir ce que l'on fait*. Universitè de Technologie de Compiégne.

[64] Di Paolo, E. A., (2003) Evolutionary robotics: the Sussex approach. *Art+Science Symposium*. Universidad del Pais Vasco, Bilbao.

[65] Di Paolo, E. A.,(2003) Plastic and non-plastic spiking neural controllers in evolutionary robotics. *Second International Conference on Computation and Control in Spiking Neuronal Networks.*, University of Sussex.

[66] Di Paolo, E. A.,(2003) Homeostasis in adaptive behaviour, neuroscienc and evolutionary robotics. *Third Daisyworld and Beyond Workshop.*, University of Sussex.

[67] Di Paolo, E. A.,(2002) Towards organismically-inspired robotics. In Dynamic Systems Approach to Embodiment and Sociality, 3rd International Symposium on Human and Artificial Intelligence, HART 2002, University of Fukui, Japan. Keynote Speaker.

[68] Di Paolo, E. A.,(2003) Evolutionary synthesis of networks. *Simple Models of Complex Networks Workshop.*, University of Leeds.

[69] Di Paolo, E. A.,(2003) Organismically-inspired robotics: homeostatic adaptation and teleology beyond the closed sensorimotor loop. Erasmus Seminar *Espaces d'action, espaces de perception*. Universitè de Technologie de Compiégne.

[70] Di Paolo, E. A., (1998). Spatio-temporal and structural constraints in the evolution of communication. Presented at the Second Conference on the Evolution of Language, London, UK, 6–9 April.

[71] Di Paolo, E. A., and Rovere, L., (1994). A knowledge-based system for diagnosis of transients in a nuclear power plant. Annual Workshop of the Argentine Association of Automatic Control (IFAC member), Buenos Aires, Sept. 1994.

Edited Special Issues

[1] Di Paolo, E. A. and De Jaegher, H., (2015). Toward an Embodied Science of Intersubjectivity: Widening the Scope of Social Understanding Research. *Frontiers in Psychology* Research Topic. 6:234. doi: 10.3389/fpsyg.2015.00234 (editorial).

[2] Di Paolo, E. A., (2009). The Social and Enactive Mind, *Phenomenology and the Cognitive Sciences*, Special Issue, vol 8 issue 4.

[3] Di Paolo, E. A., (2004). Francisco Varela's contributions to ALife. *Artificial Life* Special issue, vol 10/3.

[4] Di Paolo, E. A., (2002). Plastic Mechanisms, Multiple Timescales and Lifetime Adaptation, *Adaptive Behavior* Special Issue vols 10(3/4) and 11(1).

Reviews and Commentaries

[1] Todd, P., and Di Paolo, E. A. (2009) Farewell and hello editorial *Adaptive Behavior*, 17(1), 5–6.

[2] Di Paolo, E. A. (2007) Secreting mind out of matter. AI Lab (ed.) *The Rediscovery of Intelligence: 20 Years of AI - in Zurich and world-wide.*

[3] Di Paolo, E. A., (2007). The Quiet Heideggerian. Review of Michael Wheeler's Reconstructing the cognitive world, MIT Press. *Artificial Life*, 13(1), 203 –206.

[4] Di Paolo, E. A., (2004). Hans Jonas' The Phenomenon of Life *Journal of the British Society for Phenomenology*, 36(3), 340–342..

[5] Di Paolo, E. A., (2002). Review of "Cycles of Contingency" edited by S. Oyama, R. Gray and P. Griffiths, MIT Press. *Artificial Life*, 8(2), 219–222.

[6] Di Paolo, E. A., (2002). Review of "Evolutionary Robotics" by S. Nolfi and, D. Floreano, MIT Press. *Connection Science*, 14(1), 88–91.

[7] Di Paolo, E. A., (2001). Review of "The Mechanization of the Mind: On the Origins of Cognitive Science" by J-P. Dupuy. *Cognitive Systems Research*, 2, 291–295.

[8] Di Paolo, E. A. (2000). A field in search of maturity. *Künstliche Intelligenz*, 00(1), 41–42.

[9] Di Paolo, E. A, Bullock, S. and Noble, J. (2000). Artificial life: Discipline or method? *Artificial Life*, 6(2), 145–148.

[10] Di Paolo, E. A. (2000). The Design of Animal Communication. *Adaptive Behavior*, 8(1), 73–77.