

Publications in Journals Regarding Evolvable Assembly Systems:

- Rakotondrabe M.; Haddab Y.; Lutz P. Voltage/frequency proportional control of stick-slip microsystems. *IEEE Transactions on Control Systems Technology*

- M. Onori Miracles take a Little Longer. *Viewpoint, Journal of Assembly Automation*, Emerald Press, Vol.28, No.2, 2008

- D. Semere; M. Onori; A. Maffei; R. Adamietz Evolvable Assembly Systems: coping with variations through evolvability. *Journal of Assembly Automation*, Emerald Press, Vol.28, No.2, 2008

- C. Hanisch; G. Munz Evolvability and the Intangibles. *Journal of Assembly Automation*, Emerald Press, Vol.28, No.3, 2008

- M. Rakotondrabe; Y. Haddab; P. Lutz Development, sub-step modelling and control of micro/nano positioning 2DoF stick-slip device. *IEEE/ASME Transactions on Mechatronics*, Accepted in May 2008

- M. Rakotondrabe; Y. Haddab; P. Lutz Plurilinear modelling and robust control of a nonlinear piezoelectric cantilever. *IEEE Transactions on Control Systems Technology*, Accepted December 2007, in press (the paper is accessible with IExplore)

- M. Onori; D. Semere; B. Lindberg Evolvable systems: an approach to self-x production. *International journal of Computer Integrated Manufacturing*, Taylor & Francis, 2010

- D. Semere; M. Onori; A. Maffei; R. Adamietz Evolvable assembly systems: coping with variations through evolvability. *Journal of Assembly Automation*, Emerald Press, Vol. 28, No. 2, 2008

- Mauro Onori; José Barata Oliveira Outlook report on the future of European assembly automation. *Assembly Automation*, 2010, Vol. 30 Iss: 1, pp.7 – 31

- M. Onori Holistic precision and the global economy. *Viewpoint, Journal of Assembly Automation*, 2011, Vol. 31 Iss: 4

- A. Maffei; M. Onori Evolvable production systems: environment for new business models. *Journal on Key Engineering Materials*, Trans Tech Publications (2011) Vols. 467 - 469, pp. 1592 - 1597, Switzerland

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- Rakotondrabe M.; Haddab Y.; Lutz P. Modelling and H1 force control of a nonlinear piezoelectric cantilever. *Proc. (DVD ROM) of 2007 IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS'2007*, October 29 - November 2, San Diego, California, USA, 2007

- Rakotondrabe M.; Clévy C.; Lutz P. H1 deflection control of a unimorph piezoelectric cantilever under thermal disturbance. *Proc. (DVD ROM) of 2007 IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS'2007*, October 29 - November 2, San Diego, California, USA, 2007

- Rakotondrabe M.; Haddab Y.; Lutz P. Nonlinear modelling and estimation of force in a piezoelectric cantilever. *Proc. of 2007 IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM'2007*, September 4-7, Zurich, Switzerland, 2007

- Rakotondrabe M.; Haddab Y.; Lutz P. High-Stroke Motion Modelling and Voltage/Frequency Proportional Control of a Stick-Slip Microsystem. *Proc. (DVD ROM) of the International Conference on Robotics and Automation, ICRA'2007*, Rome, Italy

- Haddab Y.; Chen Q.; Lutz P.; Munz G. A Low Cost Coarse/Fine Piezoelectrically Actuated Microgripper With Force Measurement. *accepté à EUSPEN 2007*, Bremen, Germany

- Rakotondrabe M.; Haddab Y.; Lutz P. Plurilinear Modelling and discrete μ -Synthesis Control of a Hysteretic and Creeped Unimorph Piezoelectric Cantilever. *IEEE conference ICARCV*, 6-9 décembre 2006, Singapore

- J. Barata; M. Onori; L. Camarinha-Matos A Multiagent Based Control Approach for Evolvable Assembly Systems. *INDIN '05*

- M. Onori; J. Barata Dynamic Architecture for an Application of Evolvable Assembly Systems. *Proceedings of the ISATP 2005*, Montreal, Canada.

- Lohse, N.; Valtchanov, G.; Ratchev, S.; Onori, M.; Barata, J. Towards a Unified Assembly System Design Ontology using Protégé. *8th Intl. Protégé Conference - July 18-21, 2005 - Madrid, Spain*

- J. Barata; P. Santana; M. Onori Evolvable Assembly Systems: A Development Roadmap. *12th IFAC Symposium on Information Control Problems in Manufacturing*, St.Etienne, France, May 2006

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- T. Maraldo; M. Onori; J. Barata; D. Semere Evolvable Assembly Systems: Clarifications and Developments to Date. *Proceedings of the CIRP / IWES 6th International Workshop*

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- D. Semere; J. Barata; M. Onori Evolvable assembly Systems: Developments and Advances. *Proceedings of the International Symposium on Assembly and Manufacturing, ISAM/IEEE*, USA, July 2007

- J. Barata; M. Onori; R. Frei; P. Leitão Evolvable Production Systems: Enabling Research Domains. *Proceedings of the International Conference on Changeable, Agile, Reconfigurable and Virtual Production*, Toronto, Canada July 2007

- M. Paris; Y. Haddab; P. Lutz A new approach for microparts feeding system based on inertial force. *International Workshop on Microfactories, IWMMF 2008*, October 2008, Evanston, USA

- M. Paris; Y. Haddab; P. Lutz Practical Characterization of the force friction for the positioning and orientation of micro-components. *Proc (DVD ROM) of IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2008*, Nice, France

- Philippe Lutz Achieve functions of microrobotics environment to succeed in micro-assembly: the case of the feeding function. *Workshop on Grand Challenges in Microrobotics and Microassembly*, 28th June, 2008, RSS conference, Zurich, Switzerland

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- Niko Siltala; Andreas F. Hofmann; Reijo Tuokko; Georg Bretthauer Emplacement and Blue Print – An Approach to Handle and Describe Modules for Evolvable Assembly Systems. *SYROCO2009*

- Antonio Maffei; Kerstin Dencker; Marcus Bjelkemyr; Mauro Onori From Flexibility to Evolvability: Ways to Achieve Self-reconfigurability and Fullautonomy, *SYROCO2009*

- N. Lohse; P. Ferreira; S. Ratchev Multi-Agent Architecture for Self-Configuring Modular Assembly Systems. *SYROCO2009*

- L. Ribeiro; J. Barata; J. Ferreira An agent-based interaction-oriented shop floor to support emergent diagnosis. *8th IEEE International Conference on Industrial Informatics (INDIN)*, 13-16 July 2010, Osaka, Japan

- L. Ribeiro; J. Barata; J. Ferreira The Meaningfulness of Consensus and Context in Diagnosing Evolvable Production Systems. *Doceis2010*, Portugal

- Luis Ribeiro; José Barata; Gonçalo Cândido; Mauro Onori Evolvable Production Systems: An Integrated View on Recent Developments. *DET2010*

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- M. Onori; P. Neves; H. Akillioglu; A. Hofmann Dealing with the unpredictable: An evolvable assembly cell. *International Symposium on Assembly and Manufacturing (ISAM)*, 2011, Tampere, Finland

- H. Akillioglu; M. Onori Evolvable production systems and impacts on production planning. *International Symposium on Assembly and Manufacturing (ISAM)*, 2011, Tampere, Finland

- A. Maffei; H. Akillioglu; P. Neves; J. Ferreira; M. Onori Emerging behaviour as a driver for the sustainability of a modular, "skill-centric" production system. *Africon'2011*, Zambia

- M. Onori; P. Neves; A. Maffei; H. Akillioglu; N. Siltala Dealing with the unpredictable. An evolvable robotic cell. *4th International Conference on Changeable, Agile and Reconfigurable Systems (CARV)*, 2011, 2nd - 5th October, Montreal, Canada

- M. Onori; H. Akillioglu; A. Hofmann An evolvable robotic cell. *37th Annual Conference of the IEEE Industrial Electronics Society (IECON)*, 2011, Melbourne, Australia

- P. Neves; J. Ferreira; M. Onori; J. Barata Context and implications of learning in evolvable production systems. *37th Industrial Electronics Conference (IECON)*, 2011, Melbourne, Australia

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- L. Ribeiro, R. Rosa; A. Cavalcante; J. Barata IADE - IDEAS Agent development environment: Lessons learned and research directions. *CIRP Conference on Assembly Technologies And Systems (CATS)*, 2012, Ann Arbor, USA

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