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REVUES INTERNATIONALES 2010 - 2014 DE L'ÉQUIPE ROBOTIQUE INTERACTIVE

Revues Internationales 2010 - 2014

2014

H. Imine, A. Benallegue, T. Madani and S. Srairi, Rollover risk prediction of heavy vehicle

E. Blond, T. Merzouki, N. Schmitt, E. D. Bilbao, A. Gasser, Multiphysics modelling applied

T. Merzouki, H. Nouri, F. Roger, Direct identification of nonlinear damage behavior of compo

T. Merzouki, E. Blond, N. Schmitt, M.-

- L. Bouchetou, T. Cutard, A. Gasser, Modelling of the swelling induced by oxidation in sic based refractory castables, *Mechanics of Materials*, 68 (2014) 253–266.
- A. Barkaoui, A. Chamekh, T. Merzouki, R. Hambli, A. Mkaddem, Multiscale approach inclu
- Zoran Tiganj, Sylvain Chevallier, Eric Monacelli, Influence of extracellular oscillations on ne
- C. Riman, H. Hallal, E. Monacelli, M. Baklouti, Fuzzy Adjustment Control in Command Eva
- R. Nachar, E. Inaty, P. Bonnin, Y. Alayli, A Robust Edge Based Corner Detector (ECBD), I.
- Z. Tiganj, S. Chevallier, E. Monacelli, In- fluence of extracellular oscillations on neural com
- Y. Yang, Sy. Chevallier, J. Wiart, I. Bloch, Time -
frequency optimization for discrimination between imagination of
right and left hand movements based on two bipolar EEG channels. *EURASIP Journal on
Advances in Signal Processing*, 2014 :38, 2014.
- M. El - Hajj, R. Youness, S. Charles, Y. Alayli, E. Padiolleau, Calibration of the Parameters
- J. Lefèvre, S. Charles, M. Bosch - Mauchand, B. Eynard, E. Padiolleau, Multidisciplinary
Modelling and Simulation for Mechatronic Design, *Journal of Design Research*,
vol. 12, n° 1-2, pp. 127-144, 2014.
- S.S. Ayache, T. Al-ani, J.-P. Lefaucheur,"
Distinction between essential and physiological tremor using Hilbert - Huang transform"
Clinical Neurophysiology (2014) 44, 203—212.

2013

- HP. Zhang, P. Pei, J. Li, R. Ceschi, O. Rabreau, Estimation of a State Vector of an Inertial

T. Madani, B. Daachi, A. Benallegue, Adaptive variable structure controller of redundant ro

S. Amamra, K. Meghriche, E. Monacelli, A. Cherifi, On the use of Pulse Height Modulation

Z. Huiping, P. Peng, L. Jing, R. Ceschi, O. Rabreau, Estimation of s sate vector of an interi

A. Zaguia, A.

Wahbi, C. Tadj, A Ramdane - Cherif, Multimodal fission for interaction architecture,
Journal of Emerging Trends in Computing and Information Sciences, Vol. 4 No.
2, February 2013.

A. Zaguia, A. Wahbi, M Miraoui, C.

Tadj, A Ramdane - Cherif, Modeling Rules Fission and Modality
Selection Using Ontology, Journal of Software Engineering and Applications, 6 (7), 354-
358, 2013.

A. Wahbi, A. Zaguia, C. Tadj, A. Ramdane - Chérif, Multimodal Fusion for Interaction
Systems, Journal of Emerging Trends in Computing and Information Sciences, 4 (5), 445-
458, 2013.

A. Tayebi, A. Roberts, and A. Benallegue, "Inertial Vector Measurements Based Velocity
- Free Attitude Stabilization", IEEE TRANSACTIONS ON AUTOMATIC CONTROL, VOL.
58, N°. 11, NOVEMBER 2013.

Bertrand, O. Bruneau, "A Clear Description of System Dynamics through the Physical
Parameters and Generalized Coordinates", Journal of Multibody System Dynamics,
Springer, DOI:10.1007/s11044-012-9330-y, Volume 29, Issue 2, pp 213-233, February
2013.

C. Cibert, V. Hugel, "Compliant intervertebral mechanism for
humanoid backbone : Kinematic modeling and optimization". Mechanism and Machine
Theory, Vol. 66. 32-55.(2013).

John Nassour, Vincent Hugel, Fethi Benouezdou and Gordon Cheng. "Qualitative

Adaptive Reward Learning with Success Failure Maps: Applied to Humanoid Robot Walking". IEEE Transactions on Neural Networks and Learning Systems. Volume: 24, Issue: 1, Page(s): 81-93. January, 2013. Impact factor : 2.952.

2012

P. Provini, P. Goupil, V. Hugel, A. Abourachid. "Walking, paddling, waddling: 3D kinematics of Callonetta leucophrys". Journal of Experimental Zoology - Part A. 2012, Vol 317, no 5, pp. 275-283. Impact factor : 1.64.

L. Derafa, A. Benallegue, L. Fridman, "Super twisting control algorithm for the attitude tracking of a quadrotor". Journal of Intelligent and Robotic Systems. 2012, Vol 36, no 1, pp. 1-12. Impact factor : 1.64.

B. Daachi, T. Madani, A. Benallegue, "Adaptive neural controller for redundant robot manipulators". Journal of Intelligent and Robotic Systems. 2012, Vol 36, no 1, pp. 1-12. Impact factor : 1.64.

M. Kerma, A. Mokhtari, A. Benallegue and Y. Orlov, "Nonlinear H1 control of a Quadrotor". Journal of Intelligent and Robotic Systems. 2012, Vol 36, no 1, pp. 1-12. Impact factor : 1.64.

J.-C. Palyart Lamarche, O. Bruneau, J.G. Fontaine, "From Human Motion Captures to Humanoid Spatial Coordination", International Journal of Humanoid Robotics, World Scientific, september 2012, in press, Vol. 9, issue 3. DOI: 10.1142/S0219843612500193..

A. B. Sghaier, L. Romdhane, FBO, Multi-objective optimization to predict muscle tensions in a pinch function using genetic algorithm <http://dx.doi.org/10.1016/j.crme.2012.01.002>

S. Bertrand, O. Bruneau, F. Ben Ouezdou, S. Alfayad "ClosedForm Solutions of Inverse Kinematics for a biped robot". Journal of Intelligent and Robotic Systems. 2012, Vol 36, no 1, pp. 1-12. Impact factor : 1.64.

P.F. Doublier, O. Bruneau, F. Ben Ouezdou, "Force control of a biped robot's redundant leg producing large forces". Journal of Intelligent and Robotic Systems. 2012, Vol 36, no 1, pp. 1-12. Impact factor : 1.64.

S. Dourlens, A. Ramdane - Cherif and E. Monacelli, Multi Levels Semantic Architecture for Multimodal Interaction, accepted in 2012, to be published in the Journal of Intelligent and Robotic Systems.

published in Applied Intelligence journal (APIN) by Springer in Applications

S. Dourlens, A. Ramdane - Cherif and E. Monacelli, Tangible Ambient Intelligence with Semantic Agents in Daily Activities, accepted in 2012, to be published in Journal of Ambient Intelligence and Smart Environments (JAISE), IOS Press Journal.

Arnaud Brignol,

Tarik Al - Ani, Xavier Drouot, "Phase space and spectral power approaches for EEG - based automatic sleep - wake classification in humans: A comparative study using short and standard epoch lengths", Computer Methods and Programs in Biomedicine, Volume 109, Issue 3, March 2013, Pages 227-238, 2012.

Sébastien Dourlens, Amar Ramdane - Cherif. « Modeling & understanding environment using semantic agents”. In Journal of Artificial Intelligence and Soft Computing Research. Editors: Leszek Rutkowski, Marcin Korytkowski, Rafal Scherer, L.A. Zadeh. Volume 2, Number 1. January 2012.

2011

F. Hadri, A. Besq, S. Guillou, R. Makhoulfi, Temperature and concentration influence on d

V. Hugel, R. Hackert and A. Abourachid "Kinematic Modeling of Bird Locomotion from Exp

A.Abourachid, R.Hackert , M. Herbin, PA.

Libourel, F. Lambert, H. Gioanni, P. Provini, P. Blazevic and

V. Hugel, "Bird terrestrial locomotion as revealed by 3D kinematics", Zoology. Vol. 114, Issue 6, 2011, pp. 360– 368. Impact factor : 1.65.

A. David, O. Bruneau, “Bipedal walking gait generation based on the Sequential Method of Analytical Potential (SMAP)”, Journal of Multibody System Dynamics, vol. 26, Number 4, pp 367-395, Springer, December 2011.

S.

Bertrand, O. Bruneau, F. Ben Ouezdou, S. Alfayad “Closed - Form Solutions of Inverse K Mechanism and Machine Theory .

L. Derafa, T. Madani, A. Benallegue and A. Ouldali, "Non - Linear Control Algorithm for the Four Rotors UAV Attitude Tracking Problem", Aeronautical Journal, 2011, vol. 115, no1165, pp.175-185.

S. Alfayad, F. B. Ouezdou, F. Namoun, G. Cheng, "New Highly Integrated Electro - Hydr

S. Alfayad, F. B. Ouezdou, F. Namoun, G. Cheng, "New Highly Integrated Electro - Hydr

Simulation, Control & Comparison with real measurements", Sensors and Actuators A : Physical, Volume 169, Issue 1, Pages 124-132,10 September 2011.

S. Alfayad, F. B. Ouezdou, F. Namoun, "New 3DOF Hybrid Mechanism for Ankle, Wrist of

P. Hénaff, V. Scesa, F.B. Ouezdou, O. Bruneau, " Real timeimplementation of CTRNN and BPTT algorithm to learn on - line biped robot balance : Experiments on the standing posture ", Control Engineering Practice, Elsevier, vol. 19, Issue 1, pp 89-99, January 2011.

R. Akrache, J. Lu "Integrated Design of Fatigue life prediction of structures", Journal of Mechanical Engineering Vol. 58 (2011) 7-8, p. 547-554.

M. Zorjan, V. Hugel and P. Blazevic," Comparison between Different Humanoid Leg Hip Kinematics Trough Dynamic Simulation", International Journal of Industrial Engineering and Management (IJIEM), Vol.2 No 4, 2011, pp. 131-137, ISSN 2217-2661.

S. Dourlens and A. Ramdane - Cherif, "Semantic Architecture for Human Robot Interaction", Studies in Computational Intelligence by Springer Verlag 2010. SASF 'SemanticAgent Systems - Foundations and Applications ',Editors: A. Elci, M. Kone, & M. Orgun. Vol. 344 ,1st Edition ,XVI, 316 p.104 illus., Hardcover, ISBN: 978-3-642-18307-2, 2011.

M. D. Hina, C. Tadj, A. Ramdane - Chérif, N. Levy, "A multi - agent based multimodal system adaptive to the user's, interaction context",

Multi - Agent Systems - Modeling, Interactions, Simulations and Case Studies,
Edited by: Faisal Alkhateeb, Eslam Al Maghayreh and Iyad
Abu Doush. Publisher: InTech, ISBN 978-953-307-176-3, 2011.

Tarik Al - ani, Fanny Cazettes, Stéphane Palfi, Jean - Pascal Lefaucheur,"
Automatic removal of high amplitude stimulus artefact from
neuronal signal recorded in the subthalamic nucleus", J Neurosci Methods. 2011 May 15;
198(1):135 - 46(Journal of Neuroscience Methods).

S. Dourlens and A. Ramdane-
Cherif, Cognitive Memory for Semantic Agents in Robotic Interaction,
International Journal of Cognitive Informatics
and Natural Intelligence (IJCINI), Vol.5, Issue 1, April 2011.

CF. Riman, H. Peralta, E. Monacelli, Y. Alayli, A. El Hajj, I. Mougharbel, "A multi-interface
platform system for assistance and evaluation of disabled people", Applied Bionics and
Biomechanics 8 (1), 55 - 66 (2011).

C. Riman, H. Ghush, E. Monacelli, "Differences in Computer Performance
Across Age Groups", Journal Physical & Occupational Therapy in
Geriatrics, September 2011, Vol. 29, No. 3, Pages 169-180, 2011.

2010

F. Hadri, S. Guillou, Drag reduction by surfactant in closed turbulent flow,
International Journal of Engineering Science and Technology (2010).

Zaguia, M. D. Hina, C. Tadj and A. Ramdane - Cherif, "Interaction Context - Aware Modali

A.Zaguia, M. D. Hina, C.Tadj and A. Ramdane -
Cherif, "Using Multimodal Fusion in Accessing Web Services",
Journal of Emerging Trends in Computing and Information Sciences, Vol. 1
No. 2, October 2010.

Tarik Al - Ani, Yskandar Hamam, "A low
Complexity Simulated Annealing Approach For Training
Hidden Markov Models", IJOR, No. 3, Vol. 8, 2010.
(International Journal of Operational Research (IJOR)).

C.Riman, H. Ghush and E.Monacelli, "A comparison of age difference reaction to computer interface", European Review of Aging and Physical Activity, vol 7, Num 2, Springer, 2010.

C. Riman, E. Monacelli, I.

Mougharbel, A. El Aij, Y. Alayli, "A Multi - Interface Platform System for Assistance and Evaluation of Disabled People", First Number Special Issue on Assistive Robotics, Applied Bionics and Biomechanics journal, v8, pp 55-66, 2010.

Sylvain Chevallier, Hélène Paugam - Moisy, Michèle Sebag, "SpikeAnts, a spiking neuron network modelling the emergence of organization in a complex system", Twenty - Fourth Annual Conference on Neural Information Processing Systems (NIPS), 2010.

Sylvain Chevallier, Nicolas Cuperlier, Philippe Gaussier, "Efficient neural models for visual attention, International Conference on Computer Vision and Graphics (ICCVG)", volume 6374 of Lecture Notes in Computer Science, pages 257-264, Springer, Varsovie, Pologne, 2010.