



Laboratoire d'ingénierie des systèmes de Vers

CONFÉRENCES INTERNATIONALES 2005 - 2009 DE L'ÉQUIPE DE ROBOTIQUE INTERACTIVE

Conférences internationales avec comité de lecture et actes 2005 - 2009

2009

David Gouaillier , Vincent Hugel, Pierre Blazevic, Chris Kilner, Jérôme Monceaux, Pascal Lafourcade, Brice Marnier, Julien Serre, Bruno Maisonnier. "Mechatronic Design of NAO Humanoid", Proc. of the IEEE International Conference on Robotics and Automation, 2009, pp. 769-774.

Nicolas Jouandeau, Patrick Bonnin, Vincent Hugel, Pierre Blazevic.
"From Color Groups to Scene Interpretation", Proc. of the 4th Workshop on Humanoid

Soccer Robots of the 2009 IEEE-RAS Intl. Conf. On Humanoid Robots (Humanoids 2009), pp. 38-44.

A. El Hadri and A. Benallegue "Attitude Estimation with Gyros-Bias Compensation Using Low-Cost Sensors" in IEEE Conference on Decision and Control (CDC'2009), Shanghai, China, December 16-18, 2009.

A. Veinguertener, T. Hoinville, O. Bruneau and J.-G. Fontaine, " From morphologies of six-, four- and two-legged animals to the kinematics of the recongurable HexaQuaBip robot ", Second International Conference on Intelligent Robotics and Applications, ICIRA 2009, pp 1255-1265, December 16-18, Singapore, 2009.

A. Hourieh, O. Bruneau and F. Ben Ouezdou, "A Kinematic Approach of Walking of a BipedalSystem Based on Coordination Functions ", IEEE-RAS International Conference on Humanoid Robots, Humanoids09, pp. 309-316, Paris, December 7-10, 2009.

O. Bruneau, F. Gravez, F.B. Ouezdou, "Planning approach and local reactivity for 3D, Operational space control of 3D bipedal robots with flexible feet", IEEE Proc. of Intelligent Robots and Systems, 2009, IROS 2009, pp. 3037-3042, IEEE/RSJ International Conference, Saint-Louis, USA, October 11-15, 2009.

S. Alfayad, F.B. Ouezdou, F. Namoun, O. Bruneau, Patrick Hénaff , " Three DOF hybrid mechanism for humanoid robotic application: Modeling, design and realization ", IEEE Proc. of Intelligent Robots and Systems, 2009, IROS 2009, pp. 4955-4961, IEEE/RSJ International Conference, Saint-Louis, USA, October 11-15, 2009.

A. El Hadri and A. Benallegue "Sliding mode observer to estimate both the attitude and the gyro-bias by using low-cost sensors" in IEEE Int. Conf. on Intelligent Robots and Systems (IROS'2009), St. Louis, Missouri, USA, October 11-15, 2009

S. Alfayad, F.B. Ouezdou, F. Namoun, "New Three DOF Ankle Mechanism for Humanoid Robotic Application :Modeling, Design and Realization", IROS 2009, International Conference on Intelligent Robots and Systems , 11-15 October, 2009, St. Louis, MO, USA.

A. Veinguertener, T. Hoinville, O. Bruneau and J.-G. Fontaine " Morphological design of the bio-inspired reconfigurable HexaQuaBip robot ",International Conf. on Climbing and

H. Imine, A. Benallegue, L. Fridman, "Experimental validation of unknown Inputs estimation of heavy vehicle Via High Order Sliding Mode Observer", in the 12th IFAC Symposium on Control in Transportation Systems, (CTS'09), September 2-4, 2009, Redondo Beach, California, USA.

S. Alfayad, F. B. Ouezdou, F. Namoun, G. Cheng, "Light weight High Performance Integrated Actuator for Humanoid Robotic Applications : Modeling, Design and Realization", ICRA 2009, International Conference on Robotics and Automation , 11-16 may, 2009, Kobe, Japan.

H. Imine, A. Benallegue, T. Madani and S. Srairi, "Rollover risk prediction of an instrumented heavy vehicle using high order sliding mode observer", in IEEE Conference on Robotics and Automation (ICRA'2009), Kobe, Japan, May 12-17, 2009.

Dalila Trad, Salah Helmy, Tarik Al-ani, Stéphane Delaplace, "Hidden Markov Models and Support Vector Machines applied to P300 Based Brain-Computer Interface - a Comparative study", ICTA 09, Hammamet, 7-9 Mai, 2009. (ICTA 09)

A. Benzekri, K. Meghriche, O. Mansouri, A. Cherifi, "New Single Phase Inverter Model for Pre-calculated Switching Using Polarized Capacitors as Harmonics Filter", 3rd International Conference on Electrical Engineering ICEE2009, CDROM Proceeding pp. 261–267, 5–7 December 2009, Boumerdes, Algeria.

H. Djenidi, A. Ramdane-Cherif, N. Lévy, C. Tadj. Dynamic reconfiguration of Multimodal Architectures, International conference on computer systems and technologies, Ruse, Bulgaria, 18-19, June, 2009.

R. Ben Mosbah, S. Dourlens, A. Soukane, A. Ramdane-Cherif, N. Levy, A Knowledge based system for mechatronics Extended with ontological level, in EMM 2009 conference - Mechatronics for vehicles and production, June 24-25 , Paris.

Lamouchi Olfa, Ramdane-Cherif Amar and Nicole Lévy, Software Architecture Evaluation Approach, International Conference on Agents and Artificial Intelligence, Porto, Portugal 19-21 January 2009.

Djenidi Hicham, Ramdane-Cherif Amar and Nicole Lévy, Adaptative Multimodal

Architectures Managing Software qualities. International Conference on Agents and Artificial Intelligence, Porto, Portugal 19-21 January 2009.

M. Baklouti, Bahador Khaledgi, Jamil AbouSaleh, Fakhreddine Karray. "Towards a Comprehensive Data Fusion Architecture For Cognitive Robotics". In Intelligent Interactive Multimedia Systems & Services, 2009.

Luhandjula T, Monacelli E, Hamam Y, van Wyk B.J, Williams Q, "Visual Intention Detection for Wheelchair Motion". In: Proc Springer-Verlag (ed) 5th International symposium on visual computing, Las Vegas, USA, pp 407-416, 2009.

Abdessemed, F., Monacelli, E. "An alternate control strategy of a mobile manipulator with hardware and software description", 14th Conference IFAC, Methods and Models in Automation and Robotics, Vol 14 | Part1, Poland, 2009.

Olfa Lamouchi, Amar Ramdane-Cherif, Nicole Lévy, Evaluation Approach for Software Architecture, International conference on Software Engineering Research and Practice 2009, Nevada, USA, pp. 320-326.

2008

A. David, O. Bruneau "Sequential Method of Analytical Potentials : an approach for biped robots dynamic gait generation", Intelligent Robots and Systems, 2008, IROS 2008, pp. 2946-2951, IEEE/RSJ International Conference, Nice, France, september 22-26 2008.

C. Zaoui, O. Bruneau, F.B. Ouezdou, A. Maalej, "Compensation of forces exerted over a short period applied to the ROBIAN Biped Robot Trunk: Simulations and Experiments", The International multi-conference on systems, signals and devices, SSD'08 IEEE, pp. 1 - 6,
Amman, Jordan, 20-23 July 2008.

T. Madani and A. Benallegue "Adaptive Control via Backstepping Technique and Neural Networks for a Quadrotor Helicopter" in the 17th World Congress of International Federation of Automatic Control (IFAC'2008), COEX, Seoul, Korea. July 6-11, 2008.

M. Guiatni, A. Benallegue and A. Kheddar, "Learning-Based Thermal Rendering in Telepresence", in 6th International Conference, EuroHaptics 2008 (EH'08), Madrid, Spain: Springer Verlag, June 10-13, 2008, pp. 820-825.

A. Mokhtari, A. Benallegue, Y. Orlov and B. Daachi " Nonlinear H Control of a Quadrotor Unmanned Aerial Vehicle" in 13th International Conference on Applied Mechanics and mechanical Engineering, Cairo, Egypt, 27-29 May, 2008.

Tarik Al-ani, Chandan K. Karmakar, Ahsan H. Khandoker, Marimuthu Palaniswami, "Automatic Recognition of Obstructive Sleep Apnoea Syndrome Using Power Spectral Analysis of Electrocardiogram and Hidden Markov Models", ISSNIP 2008, Sydney, 15-18 Dec., 2008. (IEEE Xplore)

A Framework based Measurement for Evaluating an IS Quality. Lamouchi Olfa, Ramdane-Cherif Amar and Nicole Lévy. The Fifth Asia-Pacific Conference on Conceptual Modelling (APCCM 2008), Wollongong, New South Wales, Australia. January 22-25, 2008.

Malek Baklouti, Pierre-Arnaud Guyot, Serge Couvet, Eric Monacelli. "Force Controlled Upper-Limb Powered Exoskeleton for Rehabilitation". In IEEE/RSJ International Conference on Intelligent RObots and Systems (IROS), Nice, France, 2008.

Malek Baklouti, Serge Couvet, Eric Monacelli. "Intelligent Camera Interface (ICI) :A Challenging HMI for Disabled People". In International Conference on Advances in Computer-Human Interaction (ACHI), 2008.

Al-Chama, Feras; Delaplace, S; Monacelli, E; Chene, D; Farrin, N; Cornelius, C, "The effect of network characteristics on e-health Telehaptics applications; Application of suture gestures in distributed virtual surgical environment", IEEE ICTTA, 3rd International Conference on Information and Communication Technologies, Damas, Syrie, April, 2008.

Malek Baklouti, Vincent Guitteny, Eric Monacelli. "A HumanMachine Interface for Assistive Exoskeleton Based on Face Analysis". In IEEE/RAS-EMBS International Conference on Biomedical Robotics (BIOROB), 2008.

H. Emam, Y. Hamam, E. Monacelli, F. Taychouri, "Modelling of wheelchair dynamic taking into account floor conditions" International Conferences AMSE'08, Port Said, Egypt, 2008.

M. Baklouti, S. Couvet, E. Monacelli, "Intelligent Camera Interface (ICI) : A challenging HMI for disabled people", First International Conference on Advances in Computer-

Human Interaction, Sainte Luce, Martinique, Feb. 2008.

O. Bruneau, F. Gravez , F.B. Ouezdou, "Homogeneous Matric Approach for the Operational Space Control of Bipedal Robots with Flexible Feet", IEEE Proc.Of Int. Conf. On Robotics and Automation, ICRA 2008, pp. 2691-2696, Pasadena, California, May 19-23, 2008.

2007

T. Madani and A. Benallegue "Sliding Mode Observer and Backstepping Control for a Quadrotor Unmanned Aerial Vehicles" in American Control Conference (ACC'2007), New York, July 11-13, 2007.

T. Madani and A. Benallegue "Backstepping Control with Exact 2-Sliding Mode Estimation for a Quadrotor Unmanned Aerial Vehicles" in IEEE Int. Conf. on Intelligent Robots and Systems (IROS'2007), New Orleans, USA, 2007.

C. Zaoui, O. Bruneau, F.B. Ouezdou, A. Maalej, "Dynamic balance of a bipedal robot with trunk and arms subjected to 3D external disturbances", Intelligent Robots and Systems, 2007, IROS 2007, pp. 4053-4058, IEEE/RSJ International Conference, San Diego, CA, USA, Oct. 29 - Nov. 2, 2007.

Tarik Al-ani, Quynh Trang LE BA, Eric Monacelli, "On-Line Automatic Detection of Human Activity in Home Using Wavelet and Hidden Markov Models", MCSC 2007, October, 1-3, Singapore, 2007.(IEEE Xplore)

Al-ani T., Kazbunda R., Novák, "Automatic Sleep Scoring Based Only On Electrocardiogram Records", Eurosim 2007, Ljubljana, Slovenia, September 9-13, 2007.

O. Mansouri, M. Khair Allah, K. Meghriche, A. Cherifi, "Three-phase Static Inverter Using a Novel Precalculated Switching Method," in Proc. of the 33rd Annual Conference of the IEEE Industrial Electronics Society IECON'07, pp. 1530–1535, November 5–8, 2007, Taipei, Taiwan (1-4244-0783-4/07/\$20.00 ©2007 IEEE).

Towards a Context-Aware Pervasive and Adaptive Multimodality, Manolo Dulva Hina, Amar Ramdane-Cherif, Chakib Tadj and Nicole Levy. In CIC-2007: 16th International Conference on Computing. November 4 to 9, Mexico City, Mexico, 2007.

Adaptive Multimodal Architectures, Amar Ramdane-Cherif and Hicham Djenidi, In CIC-2007: 16th International Conference on Computing. November 4 to 9, Mexico City, Mexico, 2007.

One quality software evaluation approach, A. Ramdane-Cherif, Olfa Lamouchi and Nicole Levy. In CAINE 2007: the 20th International Conference on Computer Applications in Industry and Engineering, November 7-9, San Francisco, USA, 2007.

Quality Attribute-Driven Software Architecture of a Pervasive Multimodal Computing System. Amar Ramdane-Cherif, Manolo Dulva Hina. In CAINE 2007, the 20th International Conference on Computer Applications in Industry and Engineering, November 7-9, San Francisco, USA, 2007.

Tarik Al-ani, Quynh Trang Le Ba and Eric Monacelli, "On-line Automatic Detection of Human Activity in Home Using Wavelet and Hidden Markov Models Scilab Toolkits" 6th IEEE International Conference on Control Applications (CCA), Singapore, oct. 2007.

O. Mansouri, M. Khair Allah, K. Meghriche, A. Cherifi, "Novel approach for switching and harmonics reduction for three-phase inverter using precalculated PWM," in Proc. of IEEE 2007 Vehicle Power and Propulsion Conference VPPC'07, September 9–12, 2007, Wyndham (Sheraton Arlington) Hotel, DFW South Arlington , Texas , USA (IEEE Catalog Number: 07EX1461C, ISBN: 0-7803-9761-4).

- A. Benzekri, K. Meghriche, "Integrating industry CAE tools and VHDL into digital systems design courses," in Proc. of IEEE International Conference on Communication, Computer & Power (ICCCP'07), pp. 236–240, 19-21 February 2007, Muscat, Sultanate of Oman.

F. Taychouri, Y. Hamam, E. Monacelli, "Path Planning for electrical wheelchair, accessibility and comfort for disabled people", 6th EUROSIM congress, Ljubljana, Slovenia, September 9 - 13, 2007

H. Emam, Y. Hamam, E. Monacelli, I. Mougharbel, "Dynamic model of electrical wheelchair with sliding detection", 6th EUROSIM Congress on Modelling and Simulation, Ljubljana, Slovenia, September 9 - 13, 2007.

Task Migration in a Pervasive Multimodal Multimedia Computing System for Visually-

Impaired Users. Ali Awde, Manolo Dulva Hina, Yacine Bellik, Amar Ramdane-Cherif, Chakib Tadj. GPC 2007, 2nd International Conference on Grid and Pervasive Computing, Springer-Verlag LNCS, Paris, France, 2 – 4 mai 2007.

Towards Autonomic Computing: Adaptive Neural Network for Trajectory Planning, Amar Ramdane Cherif. In IJCINI'07, International Journal of Cognitive Informatics and Natural Intelligence. 1(2): 16-33 (2007).

2006

Victor Nunez, Nelly Nadjar-Gauthier, Kazuhito Yokoi, Pierre Blazevic and Olivier Stasse (2006), Whole body posture controller based on inertial forces, Humanoids 2006, Déc. 2006, Genova, Italie.

U. Zaldivar-Colado, S. Garbaya and P. Blazevic. Spring-damper Model for Parts Mating in Virtual Assembly Environment. International Symposium on Robotics and Automation ISRA 2006.

Y. Tsumaki, S. Kawai, P. Blazevic, V. Hugel, and P. Bonnin. An Operational Interface Based on the Active Window for Rescue Robot (in Japanese). SICE System Integration Division Annual Conference (SI2006), Sapporo, Japan, 14-17 December 2006.

T. Madani and A. Benallegue “Control of a Quadrotor Mini-Helicopter via Full State Backstepping Technique” in IEEE Conference on Decision and Control (CDC’2006), San Diego, California, USA, December 13-15, 2006.

L. Derafa, T. Madani and A. Benallegue “Dynamic Modelling and Experimental Identification of Four Rotors Helicopter Parameters” in IEEE Conf. on Industrial Technology (ICIT’06), Mumbai, India, December 15-17, 2006.

Hayssam Serhan, Chaiban Nasr and Patrick Henaff, Designing An Artificial Muscle Based on PID Controller and Tuned by Neural Network with NN Identification of the Plant,” Proceedings of the Eleventh International Conference on Artificial Neural Networks In Engineering (ANNIE 2006)”, novembre 2006, St. Louis, Missouri.

T. Madani and A. Benallegue “Backstepping Sliding Mode Control Applied to a Miniature

Quadrotor Flying Robot" in IEEE Conference on Industrial Electronics (IECON'2006), Paris, France, November 7-10, 2006.

Thomas Costis, Vincent Hugel, Patrick Bonnin. A new fast multi-layer line detection for embedded robotic application. 32nd Annual Conference of the IEEE Industrial Electronics Society (IECON-2006). Paris (France). November 7-10. sur CD ROM.

F.B. Ouezdou, S. Alfayad, P. Pirim, S. Barthelemy,"Humanoid Head Prototype with Uncoupled Eyes andVestibular Sensors", IROS 2006, International Conference on Intelligent Robots and Systems , 9-15 October, 2006, Beijing, China.

T. Madani and A. Benallegue "Backstepping control for quadrotor helicopter" in the Int. Conf. on Intelligent Robots and Systems (IROS'2006), China, 9-15 oct. 2006.

O. Bruneau, A. David, "Analytical Approach for the Generation of Highly Dynamic Gaits for Walking Robots, IEEE International Conf. on Intelligent Robots and Systems", Pékin, Chine, 9-15 octobre, IROS 2006.

David, O. Bruneau, "Dynamic stabilization of an under-actuated robot using dynamic effects of the legs and the trunk, IEEE International Conf. on Intelligent Robots and Systems", Pékin, Chine, 9-15 octobre, IROS 2006.

Sho Yokota, Kuniaki Kawabata, Pierre Blazevic, Hiroshi Hashimoto, Yasuhiro Ohyama. The development of crawler type robot that can move in all over the house. SICE-ICASE International Joint Conference 2006. 18-21 October, Bexco, Busan, Korea.

Sho Yokota, Kuniaki Kawabata, Pierre Blazevic, Hisato Kobayashi, Hiroshi Hashimoto, Jin-Hua She, Yasuhiro Ohyama. Development of Rough Terrain Mobile Robot with Leg-type Crawler. Proc. of the Fifth Japan-China International Workshop on Internet Technology and Control Applications, pp.65-69, 2006.

Vincent Scesa, Patrick Henaff, Fathi Ben Ouezdou, Faycal Namoun, Time Window Width Influence On Dynamic BPTT(h) Learning Algorithm Performances: Experimental Study, Proceedings of IEEE International Conference on Artificial Neural Networks S. Kollias et al. (Eds.), Part I, LNCS 4131, pp. 93 - 102, 2006, Springer-Verlag Berlin Heidelberg, Septembre 2006, Athènes.

Thomas Costis, V. Hugel. Probabilistic Localization Using Fast Line Detection in a

Quadruped Autonomous Robot. 9th International Conference on Climbing and Walking Robots (CLAWAR 2006). 12-14 September 2006, Brussels, BELGIUM.

Sho Yokota, Kuniaki Kawabata, Pierre Blazevic, Hisato Kobayashi, Hiroshi Hashimoto, Yasuhiro Ohyama. Development of connected crawler robot - Proposal mechanism and motion planning for climbing a step autonomously. 9th International Conference on Climbing and Walking Robots (CLAWAR 2006). 12-14 September 2006, Brussels, BELGIUM.

C. Sabourin, K. Madani, O. Bruneau. "Autonomous gait pattern for dynamic biped walking. International Conference on Informatics in Control, Automation and Robotics" (ICINCO). Setubal (Portugal), 2006, pp. 26-33, August 1-5 2006.

Vincent Scesa, Patrick Henaff, Fathi Ben Ouezdou and Faycal Namoun, On The Analysis Of Sigmoid Time Parameters For Dynamic Truncated BPTT Algorithm, Proceedings of IEEE International Joint Conference on Neural Networks, pp 8931-8938, juillet 2006, Vancouver.

Hayssam Serhan, Chaiban Nasr and Patrick Henaff, Designing a Muscle like System based on PID Controller and Tuned by Neural Network, Proceedings of IEEE International Joint Conference on Neural Networks, pp 10090-10097, juillet 2006, Vancouver.

Victor Nunez, Nelly Nadjar-Gauthier, Pierre Blazevic, Inertial Force Position control for jumping of humanoid robots, ISRA 2006, Août 2006, Mexique.

Yokota, S.; Kawabata, K.; Blazevic, P.; Kobayashi, H.; Control Law for Rough Terrain Robot with Leg-type Crawler. Proceedings of the 2006 IEEE International Conference on Mechatronics and Automation, June 2006 Page(s):417 - 422.

A.Benallegue, A. Mokhtari and L. Fridman "Robust Linearization and High Order Sliding Mode Observer for Quadrotor UAV" in the 9th IEEE International Workshop on Variable Structure Systems (VSS'2006), June 5–7, 2006, Alghero, Sardinia, Italy.

C. Sabourin, K. Madani, O. Bruneau. "A Fuzzy-CMAC Based Hybrid Intuitive Approach for Biped Robot's Adaptive Dynamic Walking", International Conference on Neural Networks and Artificial Intelligence (ICNNAI 2006) , Brest (Biélorussie), pp 78-83, May 31- June 2, 2006.

T. Madani et A. Benallegue "Commande adaptative décentralisée à structure variable d'une classe de systèmes non-linéaires interconnectés: application à un robot volant" in Conférence Internationale Francophone d'Automatique (CIFA'2006), Bordeaux, France, 30, 31 mai et 1er juin 2006.

R. Aubin, P. Blazevic, J. P. Guyvarc'h. Simulation of a novel snake-like robot. Pages 875-883. Climbing and Walking Robots : Proceedings of the 8th International Conference on Climbing and Walking Robots. Springer Verlag Published 2006/03.

Aubin, R. Blazevic, P. Clement, B. Guyvarc'h, J.-P. Simulation and Design of a Snake-Like Robot Based on a Bio-Inspired Mechanism. The First IEEE/RAS-EMBS International Conference on Biomedical Robotics and Biomechatronics, BioRob 2006. February 20-22, 2006 Page(s):220- 225.

Bayraktaroglu, Z.Y.; Kilicarslan, A.; Kuzucu, A.; Hugel, V.; Blazevic, P.; Design and Control of Biologically Inspired Wheel-less Snake-like Robot. The First IEEE/RAS-EMBS International Conference on Biomedical Robotics and Biomechatronics, BioRob 2006. February 20-22, 2006 Page(s):1001 - 1006.

K. Meghriche, O. Mansouri, A. Cherifi, "On the use of precalculated switching strategy to reduce harmonic distortion, a single-phase inverter performance comparative study," in Proc. of 32nd Annual Conference of the IEEE Industrial Electronics Society (IES), IECON'06, pp. 891–895, 7-10 November 2006, Paris, France (1-4244-0136-4/06/\$20.00©2006 IEEE).

K. Meghriche, O. Mansouri, A. Cherifi, "Microcontroller-based single phase inverter using a new switching strategy," in Proc. of the CES/IEEE/CLS 5th International Power Electronics and Motion Control Conference, IPEMC'06, vol. 1, pp. 574–579, 13-16 August 2006, Shanghai, China (1-4244-0448-7/06/\$20.00©2006 IEEE).

K. Meghriche, O. Mansouri, A. Cherifi, "Novel inverter control using a precalculated PWM for single phase static active-reactive power compensation," in Proceedings of the International Conference on Electrical Engineering and its Applications, ICEEA'06, pp. 193–198, 22-23 May 2006, Sidi Bel Abbes, Algeria.

Design of an Incremental Machine Learning Component of a Ubiquitous Multimodal Multimedia Computing System, Manolo Dulva Hina, Chakib Tadj and Amar Ramdane-

Cherif, IEEE WiMob 2006, International Conference on Wireless and Mobile Computing, Networking and Communications, Montreal, QC, Canada, June 2006

A Paradigm of a Pervasive Multimodal Multimedia Computing System for the Visually-Impaired Users, Ali Awde, Manolo Dulva Hina, Chakib Tadj, Amar Ramdane-Cherif and Yacine Bellik, GPC 2006, International Conference on Grid and Pervasive Computing, Taiwan, LNCS, May 2006.

T. Alani, T. Le Ba, E. Monacelli, "A stochastic approach for fall detection", Workshop Technologies et Imageries Médicales Amina, Monastir, Tunisie, 2006.

H. Peralta, C. Riman, R. Thieffry, E. Monacelli, J. Bouteille I. Mougharbel, F. Ouezdou, Y. Alayli, G. De Matteo, "A Reconfigurable Evaluation and Assistance Platform for Handicapped", IEEE IROS, Pekin, Chine, 2006.

E. Monacelli, C. Riman, R. Thieffry, I. Mougharbel, S. Delaplace "A Reactive Assistive Role Switching For Interaction Management in Cooperative Tasks", IEEE IROS, Pekin, Chine, 2006.

R. Thieffry, E. Monacelli, S. Delaplace, "Experimentations with Handicapped Users on the Adaptation of the Wheelchair Control", IEEE IROS, Pekin, Chine, 2006.

Data Mining based Bayesian Networks for best classification, A. Ouali, A. Ramdane-Cherif and MO. Krebs, In CSDAJ'06, Computational Statistics and Data Analysis Journal, Elsevier, 51(2): 1278-1292 (2006).

2005

F.B. Ouezdou, S. Alfayad, B. Almasri, "Comparison of several kinds of feet for humanoid robot", Humanoid 2005, International Conference on Humanoid Robots , 5-7 Decembre, 2005, Tsukuba, Japan.

Sho Yokota, Kuniaki Kawabata, Pierre Blazevic, Hisato Kobayashi. Deriving of climbing ability of n-links crawler robot. 8th international conference on Climbing and Walking Robots 2005. pp.123-130, 2005.

Kobayashi, H.; Yokota, S.; Blazevic, P.; Gene creation for a mobile robot by virtual training. 2005. IEEE Workshop on Advanced Robotics and its Social Impacts, 12-15 June 2005 Page(s):202 - 205.

L. Mederreg, V. Hugel, A. Abourachid, P. Blazevic, R. Hackert, Finding the adequate optimisation criteria to solve the reverse kinematics model of the redundant bird leg mechanism, Proceedings of the 8th International Conference on Climbing and Walking Robots CLAWAR 2005, pages 319-362. London-UK, septembre 2005.

L. Mederreg, V. Hugel, A. Abourachid, P. Blazevic, R. Hackert, The ROBOCOQ project: Bird Leg Kinematics Analysis and Modelling, Proceedings of International Computer Systems and Information Technology, IEEE ICSIT'05, pages 123-127, Algiers, July 19-21, 2005.

Yoshida, E.; Guan, Y.; Neo Ee Sian; Hugel, V.; Blazevic, P.; Kheddar, A.; Yokoi, K.; Motion planning for whole body tasks by humanoid robot. 2005 IEEE International Conference on Mechatronics and Automation. Volume 4, 29 July-1 Aug. 2005 Page(s): 1784 - 1789 Vol. 4

Yoshida, E.; Blazevic, P.; Hugel, V.; Pivoting Manipulation of a Large Object: A Study of Application using Humanoid Platform. Proceedings of the 2005 IEEE International Conference on Robotics and Automation, 2005. ICRA 2005. 18-22 April 2005 Page(s): 1040 - 1045.

De Cabrol, A.; Bonnin, P.; Silly-Chetto, M.; Hugel, V.; Blazevic, P. Clear box evaluation of vision algorithms application to the design of a new color region growing segmentation for robotics. Proceedings of the Eighth International Symposium on Signal Processing and Its Applications, 2005. Volume 2, August 28-31, 2005 Page(s):787 - 790

O. Stasse, N. Sian, K. Yokoi, G. Dauphin, P. Bonnin. "Fast quality measurement of a H263+ video stream for teleoperating a HRP-2 humanoid robot". Machine Vision and its Applications, Tsukuba, MVA , May 16-18, pp 522--525.

De Cabrol, Aymeric; Bonnin, Patrick J.; Hugel, Vincent; Bouchefra, Kamel; Blazevic, Pierre. Temporally optimized edge segmentation for mobile robotics applications SPIE Optics Photonics, Application of Digital Image Processing XXVIII, July 31st- August 4th , San Diego, California, USA.

Aymeric de Cabrol, Patrick J. Bonnin, Vincent Hugel, Pierre Blazevic and Maryline Silly-Chetto. Video Rate Color Region Segmentation for Mobile Robotic Applications. SPIE Optics Photonics, Application of Digital Image Processing XXVIII, July 31st- August 4th , San Diego, California, USA.

K.Bouchefra, P.Bonnin, A.de Cabrol. Data image fusion using combinatory maps. SPIE Optics Photonics, Application of Digital Image Processing XXVIII, July 31st- August 4th , San Diego, California, USA

V. Scesa, B. Mohamed, P. Henaff, F.B. Ouezdou, Dynamic recurrent neural network for biped robot equilibrium control: preliminary results, Proceedings of IEEE International Conference on Robotics and Automation, pp 4125-4130, Avril 2005, Barcelone, Espagne.

A. David, O. Bruneau, J.-G. Fontaine, "Measure of the propulsion dynamic capability of a walking system", 8th International Conf. on Climbing and Walking Robots, Londres, CLAWAR 2005.

C. Zaoui, O.Bruneau, F.b. Ouezdou, A. Maalej, "Simulations of the dynamic behavior of a bipedal robot with torso subjected to external disturbances", 8th International Conf. on Climbing and Walking Robots, Londres, CLAWAR 2005.

C. Sabourin, O. Bruneau, G. Buche. "Experimental validation of a robust control strategy for the robot RABBIT", IEEE International Conference on Robotics and Automation Barcelona, Spain, April18-22, ICRA 2005.

V. Nunez, S. Drakunov, N. Nadjar-Gauthier, J.C. Cadiou (2005), Control strategy for planar vertical jump, ICAR'05, August 2005, Seattle, USA.

V. Nunez, N. Nadjar-Gauthier (2005), Control strategy for vertical jump of humanoids robots, IEEE/RSJ International Conference on Intelligent Robots and Systems, August 2005, Edmonton, Alberta, Canada.

V. Nunez, N. Nadjar-Gauthier (2005), Humanoid vertical jump with compliant contact, Clawar'05, Sept. 2005, London; England.

K. Meghriche, O. Mansouri, A. Cherifi, "On the use of pre-calculated switching angles to design a new single phase static PFC inverter," in Proc. of the 31st IEEE International Conference of the Industrial Electronics Society (IES), IECON'05, pp. 906–911, 6-10

Delimiting cut-off of age at onset in schizophrenia using Bayesian Network, A.Ouali, A. Ramdane-Cherif and MO.krebs, The 4th IEEE International Conference in Cognitive Informatics ICCI2005, California, Irvine, USA, August 8-10, 2005.

A Context-sensitive Incremental Learning Paradigm of a Ubiquitous Multimodal Multimedia Computing System, Manolo Dulva Hina, Amar Ramdane-Cherif and Chakib Tadj, IEEE WiMob 2005, International Conference on Wireless and Mobile Computing, Networking and Communications, Montreal, QC, Canada, August 2005.

The Use of Bayesian Networks for Subgrouping Heterogeneous Diseases, A.Ouali, A. Ramdane-Cherif and MO.krebs, The 8th International Work-Conference on Artificial Neural Networks (IWANN'2005) (Computational Intelligence and Bioinspired Systems), LNCS. Barcelona, Spain, June 8-10, 2005.

The Platform Based-Agents to Test and Evaluate Software Architecture. A. Ramdane-Cherif, S. Benarif and N. Levy. In JOT'2005, International Journal of Object Technology. 4 (1): 67-82 (2005).

R. Thieffry, H. Peralta, E. Monacelli, S. Delaplace, "Adaptive Command for Handicapped User", 8th Conference of the Association for the Advancement of Assistive Technology in Europe (AAATE'05), Lille, France, 2005.

R. Thieffry, E. Monacelli, P. Henaff, S. Delaplace, "Adaptive Command and Generalization to Locomotion Aid Systems", IEEE Intern. Conference of Robotics and Automations ICRA 2005, Barcelone, Espagne, 2005.