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CONFÉRENCES INTERNATIONALES DE LA THÉMATIQUE CONCEPTION BIOMIMÉTIQUE ET COMMANDE AVANT 2005

Conférences internationales avec comité de lecture et actes Avant 2005

2004

A. David, O. Bruneau, J.-G. Fontaine, " Dynamic stabilization of an under-actuated robot using inertia of the transfer leg ", International Conf. on Climbing and Walking Robots, Madrid, Spain, September 22-24, CLAWAR 2004.

C. Sabourin, O. Bruneau, J.-G. Fontaine, " Learning of the dynamic walk of an under actuated bipedal robot: improvement of the robustness by using CMAC neural networks

", International Conference on Climbing and Walking Robots", Madrid, Spain, September 22-24, CLAWAR 2004.

C. Sabourin, O. Bruneau, J.-G. Fontaine, " Pragmatic rules for real-time control of the dynamic walking of an under-actued biped robot", Proceedings of the IEEE International Conference on Robotics and Automation, pp 4216-4221, New Orleans, USA, April 26 avril - May 1, ICRA 2004.

C. Sabourin, O. Bruneau, J.-G. Fontaine, "Start, Stop and transition of velocities of an underactuated bipedal robot without reference trajectories", International Journal of Humanoid Robotics, World Scientific, Vol.1, N°2, pp 349-374, 2004.

Zeki Y. Bayraktaroglu and Pierre Blazevic, "A controllability criterion based on a physical analogy: Limbless locomotion and Object grasping in Robotics", Robotica (2004), 22: 493-503 Cambridge University Press.

Vincent Hugel, Pierre Blazevic, Olivier Stasse, Patrick Bonnin, "Trot Gait Design Details for Quadrupeds Lecture Notes in Computer Science", Title: RoboCup 2003: Robot Soccer World Cup VII. Springer Berlin / Heidelberg. Issue: Volume 3020/2004. Pages: 495 - 502.

2003

L. Mederreg, V. Hugel, P. Blazevic, A. Abourachid, Robocoq: "Modelling and Design of a Bird-like Robot", Proceedings of the 7th International Conference on Climbing and Walking Robots CLAWAR 2003, pages 761-768. CATANIA - Italie, septembre 2003.
V. Hugel, A. Abourachid, L. Mederreg, H. Gioanni, P. Blazevic, The RoboCoq Project : Modelling and Design of a Bird-like Robot Equipped with Stabilized Vision, Proceedings of the second international symposium on Adaptive Motion of Animals and Machines, AMAM2003 Kyoto, Japan, pages 44, 4-8 march 2003.

Garbaya S., Coiffet P. , Blazevic P., "Experiments of assembly planning in virtual environment. Proceedings of the IEEE International Symposium on Assembly and Task Planning, 2003. 10-11 July 2003 Page(s):85 - 89.

J. Rubinovitz, E. Zussman, Y. Bukchin, P. Coiffet, S. Garbaya. Virtual environment for collaborative design of assembly products and systems. 10th ISPE International Conference on Concurrent Engineering: Research and Application. Portugal, 26 - 30

July, 2003.

Bonnin, P.; Stasse, O.; Hugel, V.; Blazevic, P.; Dauphin, G.; Towards a method to compare and to evaluate fast pixel gathering mechanisms for real time robotic vision systems. Seventh International Symposium on Signal Processing and Its Applications, 2003. Proceedings. Volume 2, 1-4 July 2003 Page(s):157 - 160 vol.2

V. Scesa - P. Hénaff- B. Mohamed- R. Sellaouti-F. B. Ouezdou . Identification neuronale d'un torse de robot bipède : résultats expérimentaux, Actes de la Conférence Internationale sur la Modélisation Numérique et Applications, Beyrouth, Liban, Novembre 2003.

Thieffry R., Monacelli E., Henaff P., Delaplace S, Configuring sensors by user learning for a locomotion aid interface . Proceedings - IEEE International Conference on Robotics and Automation, 1, Pages 1509-1514, Taipei, Mai 2003.

J. Foret, O. Bruneau, J.-G. Fontaine ″Unified Approach for m-Stability Analysis and Control of Legged Robots", IEEE International Conf. on Intelligent Robots and Systems, Las Vegas, Etats-Unis, 28-30 octobre, IROS 2003.

F. Gravez, O. Bruneau, F.B. Ouezdou, "Analytical parameterization of anthropomorphic bipeds", Congrès International sur les modélisations numériques appliquées, CIMNA 2003.

C. Sabourin, O. Bruneau, J.-G. Fontaine, “ Intuitive and Fuzzy Control of an Under-actuated Bipedal Robot Without References Trajectories ”, Proceedings of the 11^{ extrm {th}} World Congress in Mechanism and Machine Science, Tianjin, China, China Machinery Press, pp 1736-1740, April 1-4, IFToMM 2003.

J. Foret, O. Bruneau, J.-G. Fontaine, “ Unified Approach form-Stability Analysis and Control of Legged Robots ”, IEEE International Conf. on Intelligent Robots and Systems, Las Vegas, Etats-Unis, October 28-30, IROS 2003.

F. Gravez, O. Bruneau, F.B. Ouezdou, “ Analytical parameterization of anthropomorphic bipeds ”, Congrès International sur les modélisations numériques appliquées, CIMNA 2003.

2002

P. Henaff, O. Chocron, Adaptive Learning Control in Evolutionary Design of Mobile Robots, Proc. of IEEE International Conference on Systems, Man and Cybernetics, octobre 2002, Pages 345-349. Hammamet Tunisie.

R. Thieffry and E. Monacelli and P. Henaff and S. Delaplace, "Approaches and learning phases for a robotic adaptive deambulation task", Proc. of IEEE International Conference on Systems, Man and Cybernetics, pages 210-215, octobre 2002, Hammamet Tunisie.

P. Henaff, O. Chocron,"Evolving mobile robots with learning abilities by neural controller, International Symposium on Measurement and Control In robotics", Bourges, juin 2002.

R. Thieffry and E. Monacelli and P. Henaff and S. Delaplace, différentes approches d'apprentissage neuronal pour la conduite adaptative d'un déambulateur, Actes de la conférence Handicap 2002, pages 157-162, juin, 2002, Paris.

F. Gravez, B. Mohamed, O Bruneau, F.B. Ouezdou, 'Four Dof Torso dynamic effects on biped walking gait", 14th CISM-IFToMM Symposium on Theory and Practice of Robots and Manipulators, ROMANSY 2002.

J. Foret, O. Bruneau, J.-G. Fontaine, "Novel criterion based on a unified analysis of the stability and the propulsion of dynamic walking robots", 5th International Conf. on Climbing and Walking Robots, pp 809-816, CLAWAR 2002.

F.B. Ouezdou, A. Konno, R. Sellaouti, F. Gravez, B. Mohamed, O. Bruneau "ROBIAN biped project – a tool for the analysis of the human-being locomotion system", 5th International Conf. on Climbing and Walking Robots, pp 375-382, CLAWAR 2002.

A. Konno, R. Sellaouti and F. B. Ouezdou, Design and developement of the biped prototype Robian, IEEE-ICRA (2002), pages 1384-1389.

C. Sabourin, O. Bruneau, J.-G. Fontaine, 'Control strategy for the dynamic walking of a bipedal robot based on passive and active stages", 12th International Symp. on Measurement and Control in Robotics , ISMCR 2002.

J. Foret, O. Bruneau, J.-G. Fontaine, "Theoretical and Unified Characterization of Dynamic Walking Robots Stability", 12th International Symp. on Measurement and Control in Robotics, ISMCR 2002.

H. Cherrid, N. Nadjar Gauthier et N.K. M'Sirdi. Observateur et commande par modes de glissement d'ordre supérieur pour robot manipulateur. CIFA'2002, Conférence Internationale Francophone d'Automatique, Nantes, Juillet 2002.

N. Nadjar-Gauthier, H. Cherrid, J. C. Cadiou**,** A new second order sliding mode control for the experimental walking of an electro pneumatic biped robot, CLAWAR'2002, France, 2002.

Gravez, F.; Mohamed, B.; Ouezdou, F.B., Dynamic simulation of a humanoid robot with four DOFs torso, Robotics and Automation, 2002. Proceedings. ICRA '02. IEEE International Conference on Robotics and Automation, Volume 1, 11-15 May 2002 Page (s):511 - 516 vol.1.

Konno, A., Sellaouti, R., Amar, F.B., Ouezdou, F.B., Design and development of the biped prototype ROBIAN , Proceedings. ICRA '02. IEEE International Conference on Robotics and Automation, Volume 2, 11-15 May 2002 Page(s):1384 - 1389 vol.2.

Frolov, A.A.; Dufosse, M.; Bensmail, S.; Ouezdou, F.B.; Biologically inspired neural network approach to manipulator movement control, Robotics and Automation, 2002. Proceedings. ICRA '02. IEEE International Conference on Robotics and Automation, Volume 4, 11-15 May 2002 Page(s):3876 - 3881 vol.4.

B. Mohamed, F. Gravez, O Bruneau, F.B. Ouezdou, " Four Dof Torso dynamic effects on biped walking gait ", 14th CISM-IFToMM Symposium on Theory and Practice of Robots and Manipulators, pp. 453-462, chapter 5 "Legged locomotion", Udine, Italie, July 3-6, ROMANSY 2002.

J. Foret, O. Bruneau, J.-G. Fontaine, " Novel criterion based on a unified analysis of the stability and the propulsion of dynamic walking robots ", International Conf. on Climbing and Walking Robots, pp 809-816, CLAWAR 2002.

F.B. Ouezdou, A. Konno, R. Sellaouti, F. Gravez, B. Mohamed, O. Bruneau " ROBIAN biped project – a tool for the analysis of the human-being locomotion system ", International Conf. on Climbing and Walking Robots, pp 375-382, CLAWAR 2002.

C. Sabourin, O. Bruneau, J.-G. Fontaine, " Control strategy for the dynamic walking of a bipedal robot based on passive and active stages ", 12th International Symp. on

Measurement and Control in Robotics, ISMCR 2002.

2001

O. Bruneau, F.B. Ouezdou, J.-G. Fontaine, “ Dynamic Walk of a Bipedal Robot Having Flexible Feet ”, pp 512-517, IEEE International Conf. on Intelligent Robots and Systems, IROS 2001, Nov. 29- Oct. 11, 2001, Maui, USA.
O. Bruneau, F.B. Ouezdou, J.-G. Fontaine, “ An Approach for the Design of Walking Humanoid Robots Having Different Leg Mechanisms and Using Dynamic Gaits ”, International Symp. on Advances in Robot Dynamics and Control, ASME 2001.

2000

J.-P. Louboutin, O. Bruneau, J.-G. Fontaine, “ Optimal Design of a leg-wheel hybrid robot actuated by a quasi-resonant system ”, Intern. Conf. on Climbing and Walking Robots, CLAWAR 2000.
F. Gravez, O. Bruneau, F.B. Ouezdou, “ Three-Dimensional Simulation of Walk of Anthropomorphic Biped ”, 13th CISM-IFToMM Symposium on Theory and Practice of Robots and Manipulators, Zakopane, Poland, July 3-6, 2000. Wien: Springer. CISM Courses Lect. 422, 379-387, chapter 4 “Legged locomotion”, ROMANSY 2000.

1999

O. Bruneau, S. Haliyo, F.B. Ouezdou, “ Leg Design Optimization for a Walking Biped Robot based on the rsg Concept ”, 10th World Congr. on the Theory of Machines and Mechanisms, IFToMM 1999.

1998

O. Bruneau, F.B. Ouezdou, "Dynamic Walk Simulation of Various Bipeds via Ankle Trajectory", IEEE International Conf. on Intelligent Robots and Systems, IROS 1998.
O. Bruneau, F.B. Ouezdou, J.-C. Guinot “ DSTBip : Dynamic Simulation Tool for Biped Robots ”, 12th CISM-IFToMM Symp. on Theory and Practice of Robots and Manipulators, ROMANSY 1998.

O. Bruneau, F.B. Ouezdou, P.B. Wieber “ Dynamic transition simulation of a walking

anthropomorphic robot ”, IEEE International Conference on Robotics and Automation, ICRA 1998.

1997

O. Bruneau, F.B. Ouezdou, “ Compliant contact of walking robot feet ”, ECPD International Conference on Advanced Robotics, Intelligent Automation and Active Systems, September 26-28, 1997, Bremen, Germany, ECPD 1997.

1996

O. Bruneau, F.B. Ouezdou, “ Energetic analysis of three classical structures of walking robots leg ”, CISM-IFToMM Symposium on Theory and Practice of Robots and Manipulators, July 1-4, 1996, Udine, Italy, ROMANSY 1996.