



# François Pierrot

## Publications

1989 - 2009



<b>1</b>	<b>Documents universitaires / Academic Publications</b>	<b>1</b>
<b>2</b>	<b>Journaux / Journals</b>	<b>1</b>
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	Co-auteurs français / Co-authors from France	14

#### VUE SYNTHETIQUE / SYNTHESIS

REVUES INTERNATIONALES / INTERNATIONAL JOURNALS	→ 25
BREVETS / PATENTS	→ 9
CONFERENCES INTERNATIONALES / INTERNATIONAL CONFERENCES	→ 131 (12 INVITEES / BEING INVITED)
PUBLICATIONS AVEC CO-AUTEURS HORS LABO / WITH CO-AUTHORS FROM OTHER LABS	→ 30% (68 CO-AUTEURS / CO-AUTHORS)
PUBLICATIONS AVEC CO-AUTEURS ETRANGERS / WITH FOREIGN CO-AUTHORS	→ 20% (29 C-A ETRANGERS / FOREIGN C-A)

## 1 Documents universitaires / Academic Publications

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### Robots pleinement parallèles légers

F. Pierrot

Thèse de doctorat, Université Montpellier II, mai 1991. (PhD Dissertation)

### Robots à architecture complexe : du laboratoire à l'atelier

F. Pierrot

Habilitation à Diriger des Recherches, Université Montpellier II, mars 2001. (« PhD Adviser » Dissertation)

## 2 Journaux / Journals

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### Internationaux / International

- J1 DELTA : a simple and efficient parallel robot**  
F. Pierrot, C. Reynaud, A. Fournier  
Robotica, Vol. 8, pp. 105-109, 1990.
- J2 Fast parallel robots**  
F. Pierrot, A. Fournier, P. Dauchez  
Journal of Robotics Systems 8(6), pp. 829-840, 1991.
- J3 A new design of a 6-DOF parallel robot**  
F. Pierrot, M. Uchiyama<sup>1</sup>, P. Dauchez, A. Fournier  
Journal of Robotics and Mechatronics, Vol. 2, N° 4, pp. 92-99, 1992.
- J4 Towards a fully-parallel 6 DOF robot for high-speed applications**  
F. Pierrot, A. Fournier, P. Dauchez  
Int. J. of Robotics & Automation, Special Issue on Parallel and Multi-Arm Robots, Vol. 7, pp. 15-22, 1992.
- J5 A new design of a 6-DOF parallel robot (en japonais / in Japanese language)**  
F. Pierrot, M. Uchiyama<sup>1</sup>, P. Dauchez, A. Fournier  
KIKAI NO KENKYU [Science of Machine], Vol. 44, N° 2, pp. 55-62, 1992.
- J6 Robust Design of Independent Joint Controllers with Experimentation on a High-Speed Parallel Robot**  
P. Chiacchio<sup>2</sup>, F. Pierrot, L. Sciavicco<sup>3</sup>, B. Siciliano<sup>4</sup>  
IEEE Trans. on Industrial Electronics, Vol. 40, N° 4, pp. 393-403, 1993.
- J7 Development of a 6-dof High-Speed Parallel Robot HEXA**  
M. Uchiyama<sup>1</sup>, K. Iimura<sup>5</sup>, S. Tarao<sup>6</sup>, F. Pierrot, O. Toyama<sup>7</sup>  
Journal of the Robotics Society of Japan, Vol. 12, No. 3, pp. 451-458, 1994.
- J8 Variable Structure Control Stabilized by High-Frequency Oscillations: Theory – Simulation – Experiments**  
P. Bégon, P. Fraise, F. Pierrot, P. Dauchez  
LRA, Vol. 6, pp 283-292, 1994.
- J9 Position / Force Control of a Manipulator Mounted on a Vehicle**  
C. Perrier, L. Cellier, P. Dauchez, P. Fraise, E. Dégoulange, F. Pierrot  
Journal of Robotic Systems, Vol. 13, Number 11, pp. 687-698, 1996.
- J10 A planar quaternion approach to the kinematic synthesis of a parallel manipulator**  
A.P. Murray<sup>8</sup>, F. Pierrot, P. Dauchez, J.-M. McCarthy<sup>9</sup>  
Robotica, Vol. 15, Part. 4, pp. 361-365, July-August 1997.

- J11 Hippocrate: A safe robot arm for medical applications with force feedback**  
F. Pierrot, E. Dombre, E. Dégoulange, L. Urbain<sup>36</sup>, P. Caron<sup>37</sup>, S. Boudet<sup>39</sup>, J. Gariépy<sup>40</sup>, J.L. Mégrien<sup>41</sup>  
Medical Image Analysis, Vol. 3, n° 3, 1999, pp. 285-300.
- J12 Modelling and Preliminary Design Issues of a 4-axis Parallel Machine for Heavy Parts Handling**  
O. Company, S. Krut, F. Pierrot  
IMECH, Special Issue on Parallel Kinematics, Vol. 216, Part K., pp. 1-11, January 2002
- J13 Modelling and Preliminary Design Issues of a 3-axis Parallel Machine-Tool**  
O. Company, F. Pierrot  
Mechanisms and Machine Theory, Vol. 3737, pp. 1325-1345, 2002.
- J14 H4: a high speed 4dof parallel robot. Synthesis, Modelling and Control Issues**  
F. Pierrot, O. Company, F. Marquet  
IEEE Transactions on Robotics and Automation, Vol. 19, No 3, pp.411-420, June 2003
- J15 Design and Control Issues for Intrinsically Safe Medical Robots**  
P. Poignet, E. Dombre, F. Pierrot, O. Mérigeaux<sup>38</sup>, G. Duchemin  
Industrial Robot, Vol. 30, No 1, pp. 83-88, 2003
- J16 Dermarob : A Safe Robot for Reconstructive Surgery**  
E. Dombre, P. Poignet, G. Duchemin, F. Pierrot  
IEEE Transactions on Robotics and Automation, Vol. 19, No 3, pp.876-884, October 2003
- J17 Vision-based kinematic calibration of an H4 parallel mechanism: practical accuracies**  
N. Andreff<sup>42</sup>, P. Renaud<sup>43</sup>, F. Pierrot, P. Martinet<sup>45</sup>  
Industrial Robot International Journal, Vol. 31 No. 3, pp.273-283, 2004
- J18 Velocity Performance Indexes for Parallel Mechanisms with Actuation Redundancy**  
S. Krut, O. Company, F. Pierrot  
Robotica, Vol. 22, Cambridge University Press, pp. 129-139, March 2004.
- J19 Medically Safe and Sound - The challenge of designing and manufacturing actuated medical robots for safe human interaction**  
G. Duchemin, P. Poignet, E. Dombre, F. Pierrot  
IEEE Robotics & Automation Magazine, pp.46-55, Vol. 11, No 2, June 2004
- J20 A hybrid position / force control approach for identification of deformation models of skin and underlying tissues**  
G. Duchemin, P. Mailllet, P. Poignet, E. Dombre, F. Pierrot  
IEEE Trans. Biomedical Engineering, Vol. 52(2), pp.160-170, 2005
- J21 Internal Singularity Analysis of a Class of Lower Mobility Parallel Manipulators with Articulated Travelling Plate**  
O. Company, S. Krut, F. Pierrot  
IEEE Transactions on Robotics, Vol. 22, Issue 1, pp. 1-11, 2006
- J22 Kinematic and Dynamic Identification of Parallel Mechanisms**  
P. Renaud, A. Vivas, N. Andreff<sup>42</sup>, P. Poignet, P. Martinet<sup>45</sup>, F. Pierrot, O. Company  
Control Engineering Practice, Vol. 14, Issue 9, pp. 1099-1109, 2006
- J23 Robust Force Control Strategy based on Virtual Environment**  
P. Fraise, P. Dauchez, F. Pierrot  
Journal of Advanced Robotics, Vol. 21, pp. 485-498, 2007
- J24 Optimal Design of a 4-dof Parallel Manipulator: From Academia to Industry**  
F. Pierrot, V. Nabat, O. Company, S. Krut, P. Poignet  
IEEE Transactions on Robotics, Vol. 25, No. 2, pp. 212-224, 2009

- J25 **Simplified dynamic modeling and improvement of a four degree of freedom pick-and-place manipulator with articulated moving platform**  
O. Company, F. Pierrot, S. Krut, V. Nabat  
Journal of Systems and Control Engineering, Vol. 223, No. 1, pp. 13-27, 2009

### Nationaux / Domestic

- N1 **Manipulation robotiques à haute vitesse : une solution pleinement parallèle**  
F. Pierrot, P. Fraisse, X. Delebarre, P. Dauchez  
APII, Vol. 26, N° 1, pp. 3-14, 1992.
- N2 **Robots parallèles : du laboratoire à l'atelier**  
F. Pierrot, P. Dauchez, M. Uchiyama<sup>1</sup>  
RAPA, Vol. 5, N° 2, pp. 49-55, 1992.
- N3 **Projet VAP - Charge utile : concepts matériel et logiciel**  
A. Gaillet<sup>30</sup>, C. Reboulet<sup>31</sup>, C. Lambert<sup>32</sup>, M. Llibre<sup>33</sup>, P. Rives<sup>34</sup>, E. Dombre, A. Liégeois, F. Pierrot  
Bulletin de liaison de la recherche en informatique et en automatique, N° 139, pp. 35-39, 1992.
- N4 **Insertions rapides avec un robot parallèle à six degrés de liberté**  
P. Bégon, F. Pierrot, P. Dauchez  
RAPA, Vol. 8, N° 4, pp. 513-527, 1995.
- N5 **Quelques problèmes de conception et commande de robots médicaux**  
E. Dombre, G. Duchemin, P. Poignet, F. Pierrot  
Mécanique & Industries, Volume 4, Issue 5, pages 559-563, septembre-octobre 2003.

## 3 Ouvrages scientifiques / Book Chapters

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- B1 **Modélisation des robots parallèles**  
J.-P. Merlet<sup>35</sup>, F. Pierrot  
Analyse et Modélisation des Robots Manipulateurs, Traité IC2,  
Hermès, Paris, France, ISBN : 2-7462-0300-6, pp. 93-144, 2001.
- B2 **Modeling of Parallel Robots**  
J.-P. Merlet<sup>35</sup>, F. Pierrot  
Modeling, performance analysis and control of robots manipulators, ISBN 9781905209101, pp. 81-139,  
2007.

## 4 Colloques en position d'invité / Invited Conference Papers

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- I1 **HEXA: a fast six-DOF fully-parallel robot**  
F. Pierrot, P. Dauchez, A. Fournier  
ICAR '91, Pise, Italie, pp. 1158-1163, 1991.
- I2 **Hexa: a fully-parallel 6 DOF Japanese-French robot**  
F. Pierrot, P. Dauchez, M. Uchiyama<sup>1</sup>, K. Iimura<sup>5</sup>, K. Unno<sup>10</sup>, O. Toyama<sup>7</sup>  
Premier congrès franco-japonais de mécatronique, Besançon, France, pp. 1-8, 1992.
- I3 **Control of fast parallel robots: Application to the HEXA robot**  
F. Pierrot, P. Bégon, P. Dauchez  
MIMR'95, Sendai, Japan, pp. 572-575, 1995.

- I4 **Creating links between companies and a robotics laboratory. A French experience.**  
F. Pierrot  
Encuentro Internacional « La vinculacion efectiva entre el sector productivo y las instituciones de educacion superior », Monterrey, Mexique, 17-18 novembre 1999. (En présence du Ministre de l'Enseignement Supérieur du Mexique)
- I5 **Towards non-hexapod mechanisms for high performance parallel machines,**  
F. Pierrot, O. Company  
IECON'00 : 21st International Conference on Industrial Electronics, Control and Instrumentation, Nagoya, Aichi, Japan, October 22-28, pp. 229-234, 2000.
- I6 **Parallel Mechanism and Redundancy**  
F. Pierrot  
In: Proc. of the 1st International Colloquium of the Collaborative Research Centre 562 - "Robotic Systems for Handling and Assembly", Braunschweig, Germany, 2002
- I7 **Towards 3T-1R and 3T-2R Parallel Kinematics with High Tilting Capabilities**  
F. Pierrot  
IGM-Seminar, Kinematik, Dynamik und Mechatronik in der Bewegungstechnik, RWTH Aachen, January 2004
- I8 **On PKM with Articulated Travelling-Plate and Large Tilting Angles**  
François Pierrot, Olivier Company, Sébastien Krut  
11th IMEC, Session plénière, 3-5 novembre 2004, Tokyo, Japon
- I9 **Lower mobility PKM for Large Tilting Angles**  
François Pierrot, Olivier Company, Vincent Nabat, Sébastien Krut  
In: Proc. of the 2nd International Colloquium of the Collaborative Research Centre 562 - "Robotic Systems for Handling and Assembly", Braunschweig, pp. 253-268, Germany, 2005
- I10 **From Par4 to Adept Quattro**  
F. Pierrot, V. Nabat, O. Company, F. Pierrot  
In: Proc. of the 2nd International Colloquium of the Collaborative Research Centre 562 - "Robotic Systems for Handling and Assembly", Braunschweig, pp. -, Germany, 2008
- I11 **Medical Robotics: Still a Long Way to Go**  
F. Pierrot  
IEEE International Conference on Robotics and its Social Impact, Taipei, Taiwan, 23-25 August, 2008
- I12 **Designing Parallel Mechanisms with Industry in Mind**  
F. Pierrot  
ASME DETC, Plenary Key Note Lecture, San Diego, USA, Sept. 2009

## 5 Colloques avec actes et comité de lecture / Conference Papers

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**1989**

- C1 **The DELTA parallel robot : towards the dynamic control**  
F. Pierrot, A. Fournier  
SIFIR '89, Saragosse, Espagne, pp. 97-101, 22-24, 1989.

**1990**

- C2 **Fast models for the DELTA parallel robot**  
F. Pierrot, A. Fournier  
IFIP, Rome, Italie, pp. 123-130, 1990.

- C3 **Control of a redundant two-arm robot for coordinated tasks**  
P. Dauchez, F. Pierrot  
IFIP, Rome, Italie, pp. 139-146, 1990.
- C4 **High speed control of a parallel robot**  
F. Pierrot, M. Benoit, P. Dauchez, J.-M. Galmiche  
IROS '90, Tsuchiura, Japon, pp. 949-954, 1990.
- 1991**
- C5 **Towards a fully-parallel 6 DOF robot for high-speed applications**  
F. Pierrot, A. Fournier, P. Dauchez  
IEEE ICR&A, Sacramento, California, pp. 1288-1293, 1991.
- C6 **Toward Robust Hybrid Control for Two-Arm Robots**  
P. Fraisse, X. Delebarre, P. Dauchez, F. Pierrot  
IROS '91, Osaka, Japon, pp. 331-336, 1991.
- C7 **Parallel structures as robot wrists**  
F. Pierrot, E. Dombre  
in Advances in Robot Kinematics, Springer-Verlag, Vienna, 1991
- 1992**
- C8 **Control of a Fast Parallel Robot: a Robust Solution**  
P. Fraisse, F. Pierrot  
ISRAM '92, Santa Fe, New-Mexico, pp. 319-324, 1992.
- C9 **Design and control of a very fast 6-dof parallel robot**  
M. Uchiyama<sup>1</sup>, K. Iimura<sup>5</sup>, F. Pierrot, K. Unno<sup>10</sup>, O. Toyama<sup>7</sup>  
IMACS/SICE '92, Kobe, Japon, pp. 473-478, 1992.
- C10 **Robust hybrid control schemes for a two-arm robot: performance analysis**  
P. Fraisse, P. Dauchez, F. Pierrot  
IECON '92, San Diego, California, pp. 676-681, 1992.
- C11 **Real Time Applications with Transputers**  
M. Benoit, T. Gil, F. Pierrot  
Transputer '92, IOS Press, Arc et Senans, France, pp. 350, 1992.
- C12 **A new design of a very fast 6-DOF parallel robot**  
M. Uchiyama<sup>1</sup>, K. Iimura<sup>5</sup>, F. Pierrot, P. Dauchez, K. Unno<sup>10</sup>, O. Toyama<sup>7</sup>  
23<sup>rd</sup> ISIR, Barcelone, Espagne, pp. 771-776, 1992.
- C13 **Development of a 6-DOF High-Speed Parallel Robot HEXA**  
M. Uchiyama<sup>1</sup>, K. Iimura<sup>5</sup>, F. Pierrot, K. Unno<sup>10</sup>, O. Toyama<sup>7</sup>  
10<sup>th</sup> annual Conference of the Robotics Society of Japan, pp. 757-760, 1992.
- 1993**
- C14 **Virtual environment for robot force control**  
P. Fraisse, F. Pierrot, P. Dauchez  
IEEE ICR&A, Atlanta, Georgia, pp. 219-224, 1993.
- C15 **Force control of an industrial PUMA 560 robot under environmental constraints.**  
E. Dégoulange, P. Dauchez, F. Pierrot  
IEEE ICR&A, Atlanta, Georgia, pp. 213-218, 1993.
- C16 **HEXA: a High Speed Parallel Robot**  
F. Pierrot, M. Uchiyama<sup>1</sup>, K. Unno<sup>10</sup>  
Video Proc. IEEE ICR&A, Atlanta, Georgia, 1993.
- C17 **Experimenting Acceleration Feedback Loop for Robot Control**  
P. Chiacchio<sup>2</sup>, F. Pierrot, B. Siciliano<sup>4</sup>  
2<sup>nd</sup> European Control Conference, Groningen, Pays-Bas, 1993.

- C18 Determination of a force control law for an industrial robot in contact with a rigid environment**  
E. Dégoulange, P. Dauchez, F. Pierrot  
Int. Conference on SMC, Le Touquet, France, Vol. 2, pp. 270-275, 1993.
- C19 Virtual Environment for Robot Force Control. Experimental Result**  
P. Fraisse, X. Delebarre, F. Pierrot  
ICAM '93, Tokyo, Japon, pp. 390-395, 1993.
- C20 Hybrid Position / Force Control: Task Description and Control Scheme Determination**  
A. Pujas, P. Dauchez, F. Pierrot  
IEEE/RSJ IROS '93, Yokohama, Japon, pp. 841-846, 1993.
- C21 The Concept of Virtual Environment for the Robust Hybrid Control of Two-Arm Robots**  
P. Fraisse, P. Dauchez, F. Pierrot  
IEEE / Nagoya University Workshop on Multiple/Distributed Robotic System, Nagoya, Japon, 1993.
- C22 High-Precision, High-Speed Insertion with a 6-dof Parallel Robot**  
P. Bégon, F. Pierrot, P. Dauchez  
24<sup>th</sup> ISIR, Tokyo, Japon, pp. 145-152, 1993.
- C23 Variable Structure Control Stabilized by High-Frequency Oscillations. Theory, Simulation, Experiments**  
P. Bégon, F. Pierrot, P. Dauchez  
ICAR, Tokyo, Japon, pp. 405-410, 1993.
- 1994**
- C24 Determination of a reference model for controlling the deformation of an industrial robot.**  
E. Dégoulange, P. Dauchez, F. Pierrot, P. Prat<sup>52</sup>  
IROS '94, Munich, Allemagne, pp. 343-351, 1994.
- C25 Nonsmooth mechanics approach for robots simulations**  
F. Pierrot, M. Jean<sup>51</sup>, P. Dauchez  
4<sup>th</sup> Symposium on Robot Control, SyRoCo '94, Capri, Italie, pp. 577-584, 1994.
- C26 Design of a manipulator for planetary rovers**  
O. Gaudry, F. Pierrot, E. Dombre, A. Liégeois  
10<sup>th</sup> IFToMM Symposium on Theory and Practise of robots manipulators, Gdansk, Pologne, 1994.
- C27 A two-arm robot can be stronger than two arms. Experiments on optimal force distribution in 2-arm robot**  
Y.-E. Bouffard-Vercelli, P. Dauchez, F. Pierrot  
in Advances in Robot Kinematics and Computational Geometry, Kluwer Academic Publishers B. V., 1994
- 1995**
- C28 Design and Control of Mobile Manipulator for Weed control**  
P. Thompson<sup>53</sup>, M. Rombaut<sup>54</sup>, G. Rabatel<sup>55</sup>, F. Pierrot, A. Liégeois, F. Sevilla<sup>56</sup>  
ICAR '95, Sant Feliu de Guixols, Spain, pp. 933-938, 1995.
- C29 Robust hybrid position/force control of robot manipulators**  
A. Pujas, P. Fraisse, F. Pierrot, P. Dauchez  
ICAR '95, Barcelone, Espagne, pp. 629-634, 1995.
- C30 Robust Control of Two-arm Robot. An efficient implementation based on DSP**  
P. Fraisse, A. Pujas, P. Dauchez, F. Pierrot  
3<sup>rd</sup> Conf. on Mechatronics and Robotics, Paderborn, Allemagne, pp. 162-175, 1995.
- C31 Mobile manipulation of an explosive object**  
P. Fraisse, P. Dauchez, F. Pierrot, L. Cellier  
ISER '95, Stanford, Californie, Experimental Robotics IV, pp. 467-473, 1995.
- C32 Simulation of various control strategies for a mobile manipulator**  
P. Thompson<sup>53</sup>, G. Rabatel<sup>55</sup>, F. Pierrot, A. Liégeois, F. Sevilla<sup>56</sup>  
IASTED Modeling Identification & Control, IGLS, Innsbruck, Autriche, pp. 327-330, 1995.

- C33 **Performance comparison of various control strategies for a mobile manipulator**  
P. Thompson<sup>53</sup>, G. Rabatel<sup>55</sup>, F. Pierrot, A. Liégeois, F. Sevilla<sup>56</sup>  
IROS'95, Pittsburgh, Pennsylvania, USA, pp. 473-479, 1995.
- C34 **Arteries diseases detection: a cooperative-robot solution**  
X. Thérond, E. Dombre, F. Pierrot  
ICAR '95, Barcelone, Espagne, pp. 43-50, 1995.
- C35 **Fuzzy Sliding Mode Control of a Fast Parallel Robot**  
P. Bégon, F. Pierrot, P. Dauchez  
IEEE ICR&A, Nagoya, Japon, pp. 1178-1183, 1995.
- C36 **Mobile manipulation of a fragile object**  
P. Fraisse, P. Dauchez, F. Pierrot, L. Cellier  
ISER 95, Stanford, USA, pp.467-474, 1995 (LNCIS Vol. No223, 1997, ISBN: 3-540-76133-0)
- 1996**
- C37 **On the design of parallel manipulators for a prescribed workspace: a dual quaternion approach**  
A. Murray<sup>8</sup>, F. Pierrot, P. Dauchez, M. McCarthy<sup>9</sup>  
in Advances in Robot Kinematics and Computational Geometry, Kluwer Academic Publishers B. V., 1996
- C38 **Force control of a medical robot for arterial diseases detection**  
E. Dombre, X. Thérond, E. Dégoulange, F. Pierrot  
in Robotics and Manufacturing, Vol. 6, TSI Press, pp. 793-798, 1996.
- C39 **Evaluation of force capabilities for redundant manipulators**  
P. Chiacchio<sup>2</sup>, Y. Bouffard, F. Pierrot  
IEEE ICR&A, Minneapolis, Minnesota, USA, pp. 3520-3525, 1996.
- C40 **Robot-assisted detection of atheromatous plaques in arteries**  
X. Thérond, E. Dégoulange, E. Dombre, F. Pierrot  
IARP'96: International Workshop on Medical Robotics, Vienna, Austria, pp. 133-140, 1996.
- C41 **Fuzzy Force Control on the HEXA Parallel Robot**  
F. Pierrot, P. Dauchez, P. Fraisse  
Mechatronics '96, Guimaraes, Portugal, pp. 2.21-2.25, 1996.
- C42 **Evaluation of velocity capabilities for redundant parallel robots**  
F. Pierrot, P. Chiacchio<sup>2</sup>  
IEEE ICRA'97, Albuquerque, New Mexico, USA, pp. 774-779, 1997
- 1997**
- C43 **Bilateral teleoperation based on external force control**  
D. Esclaine, F. Pierrot, P. Dauchez, P. Fraisse  
SYROCO'97: 5<sup>th</sup> Symposium on Robot Control, Nantes, France, pp. 625-630, 1997.
- C44 **Towards the use of dual quaternions for motion generation of non-holonomic mobile manipulators**  
C. Perrier, P. Dauchez, F. Pierrot  
IEEE/RSJ IROS'97, Grenoble, France, pp. 1293-1299, 1997.
- 1998**
- C45 **SamoS: a pythagorean solution for omni-directional underwater vehicles**  
F. Pierrot, M. Benoit, P. Dauchez  
in Advances in Robot Kinematics: Analysis and Control, Kluwer Academic Publishers, 1998.
- C46 **Virtual control of systems in telerobotic**  
A. Lelevé, P. Fraisse, A. Crosnier, P. Dauchez, F. Pierrot  
in Robotics and Manufacturing, CD ISORA-049.1-O.49.6, 1998
- C47 **A Global Approach for Motion Generation of Non-Holonomic Mobile Manipulators**  
C. Perrier, P. Dauchez, F. Pierrot  
IEEE R&A, Bruxelles, Belgique, pp. 2971-2976, 1998.

- C48 **Hippocrate : an Intrinsically Safe Robot for Medical Applications**  
E. Dégoulange, L. Urbain<sup>36</sup>, P. Caron<sup>37</sup>, S. Boudet<sup>39</sup>, J. Gariépy<sup>40</sup>, J-L. Mégnyen<sup>41</sup>, F. Pierrot, E. Dombre  
IEEE/RSJ IROS'98, Victoria, B.C., Canada, October 13-17, 1998.
- C49 **Optimal thruster configuration for omni-directional underwater vehicles. SamoS: a Pythagorean solution**  
F. Pierrot, M. Benoit, P. Dauchez  
OCEANS'98: MTS/IEEE, Nice, France, September 28-October 1, 1998.
- 1999**
- C50 **Advanced NC-programing of parallel machine-tool using workspace models and NC-simulation systems**  
B. Lauwers<sup>16</sup>, Q. Li<sup>17</sup>, F. Pierrot, A. Crosnier, O. Company  
Int. Workshop on Parallel Kinematic Machines, November 30<sup>th</sup>, 1999, Milan, Italy, ISBN 88-900426-0-5, pp. 3-9.
- C51 **Modeling and Simulation of Robotic Tasks Teleoperated through the Internet**  
A. Lelevé, P. Fraisse, P. Dauchez, F. Pierrot  
IEEE/ASME Int. Conf. on AIM, Atlanta, USA, 19-23 Sep. 1999, pp. 299-304 (CD-ROM).
- C52 **A new 3R-1T parallel robot**  
O. Company, F. Pierrot  
9<sup>th</sup> International Conference on Advanced Robotics, Tokyo, Japan, 25-27 October 1999, pp. 557-562.
- C53 **Teleoperation through the Internet : Experimental Results with a Complex Manipulator**  
A. Lelevé, P. Fraisse, P. Dauchez, F. Pierrot  
30<sup>th</sup> International Symposium on Robotics, Tokyo, Japan, 27-29 octobre 1999, pp. 63-70.
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