

Marc JAEGER

Professional Contact

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French citizen. Born September 7th, 1962.

Current position

Senior Researcher at CIRAD AMAP Unit, EPI DigiPlante Team (INRIA / Ecole Centrale Paris CIRAD).

Main research and development topics

Computer graphics (Natural Phenomena).

- Level of Detail, level of vision BREP geometrical models (ramified objects and spare objects).
- Fast rendering of natural complex scenes.
- Ramified object encoding in voxel space .
- Landscape simulations (water cycle and plant functional simulations).
- Volume rendering and reconstruction. Solid characterisation, statistical analysis (past activities).

Applications (Software developments in the frame of GreenLab, DigiPlante and Amap projects)

- Simulated Plants, Stand, crops, landscape simulation and visualisation
- Rendering and natural phenomena effects on landscape scenes (shadows, fog, snow,...)
- Landscape evolution simulation, based on vegetation growth and water cycle simulation.
- 3D image reconstruction and analysis of vegetal tissues (roots) from microscopic slices.

Latests Publications

Journals.

- QingQiong Deng, Xiaopeng Zhang, Gang Yang, Marc Jaeger. Multiresolution foliage for forest rendering, in COMPUTER ANIMATION AND VIRTUAL WORLDS, 2010, Vol. 21, No 1, John Wiley and Sons, pp. 1-23
- Xiaopeng Zhang, Jianfei Liu, Marc Jaeger and Zili Li. Volume Decomposition and Hierarchical Skeletonization. The International Journal of Virtual Reality, 2009, Vol 8, no. 1, p. 79-80
- Jun Teng, Marc Jaeger and Baogang Hu. A Fast Ambient Occlusion Method for Real-Time Plant Rendering. Journal of Computer Sciences and Technology vol. 22, no. 6, 2007, p. 859-866
- Vincent Le Chevalier, Marc Jaeger, Xing Mei, Paul-Henry Cournède. Simulation and Visualisation of Functional Landscapes: Effects of the Water Resource Competition between Plants. Journal of Computer Sciences and Technology. vol. 22, no. 6, 2007, p. 835-845
- Changzhu Jin, Russell L. Ciochon, Wei Dong, Robert M. Hunt, Jr, Jinyi Liu, Marc Jaeger, and Qizhi Zhu. 2007. The first skull of the earliest giant panda. PNAS, June 26, 2007, vol. 104, no. 26, p. 10932-10937

Book Chapter.

- Xiaopeng Zhang, Bo Xiang, Wujun Che, Marc Jaeger. Volume Decomposition and Hierarchical Skeletonization for Shape Analysis, Pattern Recognition, Peng-Yeng Yin (Ed.), ISBN: 978-953-307-014-8, INTECH, Available from: <http://sciyo.com/articles/show/title/volume-decomposition-and-hierarchical-skeletonization-for-shape-analysis?PHPSESSID=9dheklc04jp2tflh9qdhoiqjd1>
- P. de Reffye, D. Barthélémy, P.-H. Cournède, and M. Jaeger. Modélisation et simulation de l'architecture et de la production végétales. In F. Hallé, editor, Aux origines des plantes. Fayard, 2008

Conferences (international with proceedings)

- Vincent Le Chevalier, Marc Jaeger. Bottom-up approach of landscape simulation leading to a generic synchronization. Accepted to LandMod 2010, Montpellier, February 3-5, 2010, France
- Marc Jaeger, Jinyuan Jia, Xiaopeng Zhang, Sebastien Griffon. VR Web based tree and vegetation representations for environmental applications and studies, an example on ChongMing Island. Accepted to LandMod 2010, Montpellier, February 3-5, 2010, France
- Ruoxi Sun, Jinyuan Jia, Hongyu Li, Marc Jaeger. Image-based Lightweight Tree Modeling. In: Proceedings of the 8th international Conference on Virtual Reality Continuum and Its Applications in industry (Yokohama, Japan, December 14 - 15, 2009). S. N. Spencer, Ed. VRCAI '09. ACM, New York, NY, pp. 17-22
- Ruoxi Sun, Jinyuan Jia and Marc Jaeger, "Intelligent Tree Modeling Based on L-system". Accepted to IEEE 10th International Conference on Computer-aided Industrial Design & Conceptual Design. November 26-29, 2009, Wenzhou, China

- Xiaojuan Ning, Xiaopeng Zhang, Yinghui Wang, Marc Jaeger. 2009. Segmentation of architecture shape information from 3D point cloud. In Proceedings of the 8th international Conference on Virtual Reality Continuum and Its Applications in industry (Yokohama, Japan, December 14 - 15, 2009). S. N. Spencer, Ed. VRCIA '09. ACM, New York, NY, pp. 127-132
- Paul-Henry Cournède, Thomas Guyard, Benoît Bayol, Sébastien Griffon, François de Coligny, Philippe Borianne, Marc Jaeger and Philippe de Reffye. A Forest Growth Simulator Based on Functional-Structural Modelling of Individual Trees. In: Li, B. and Jaeger, M. and Guo, Y. (Eds). 2010. Proceedings of Plant growth Modeling, and their Applications (PMA09), Beijing, China, November 9-13, 2009, IEEE CPS, pp. 34-41
- Guanbo Bao, Xiaopeng Zhang, Wujun Che and Marc Jaeger. Billboards for Tree Simplification and Real-time Forest Rendering. In: Li, B. and Jaeger, M. and Guo, Y. (Eds). 2010. Proceedings of Plant growth Modeling, and their Applications (PMA09), Beijing, China, November 9-13, 2009, IEEE CPS, pp. 433-440
- Chao Zhu, Xiaopeng Zhang and Marc Jaeger. New Method for Construction of Tree Crown from Scanned Data. In: Li, B. and Jaeger, M. and Guo, Y. (Eds). 2010. Proceedings of Plant growth Modeling, and their Applications (PMA09), Beijing, China, November 9-13, 2009, IEEE CPS, pp. 352-359
- Vincent Le Chevalier, Marc Jaeger and Paul-Henry Cournède. Synchronisation Formalism, Resource and Plant Models for Plant Ecosystem Simulation. In: Li, B. and Jaeger, M. and Guo, Y. (Eds). 2010. Proceedings of Plant growth Modeling, and their Applications (PMA09), Beijing, China, November 9-13, 2009, IEEE CPS, pp. 277-284
- Haiwen Wu, Marc Jaeger, Mao Wang, Baoguo Li and Baogui Zhang. 3D-Reconstruction and Visualization of Xylem Vessels of Wheat Nodal Root. In: Li, B. and Jaeger, M. and Guo, Y. (Eds). 2010. Proceedings of Plant growth Modeling, and their Applications (PMA09), Beijing, China, November 9-13, 2009, IEEE CPS, pp. 384-390
- Hongjun Li, Xiaopeng Zhang, Wujun Che and Marc Jaeger. Smooth Transition between Different Plant Leaves Models. In: Li, B. and Jaeger, M. and Guo, Y. (Eds). 2010. Proceedings of Plant growth Modeling, and their Applications (PMA09), Beijing, China, November 9-13, 2009, IEEE CPS, pp. 376-383
- Xiaopeng Zhang, Jianfei Liu, Zili Li, Marc Jaeger. Volume Decomposition and Hierarchical Skeletonization. VRCIA 2008 Conference, 8-9 December 2008, Biopolis, Singapour.
- Baogang Hu, Xiaopeng Zhang, Gang Yang, Marc Jaeger. Objective Evaluation of 3D Reconstructed Plants and Trees from 2D Images. In: Proceedings of Cyberworlds 2008 Conference, Hangzhou, 22-24 september 2008, China. pp. 263-270
- Chao Zhu, Xiaopeng Zhang, Baogang Hu, Marc Jaeger. Reconstruction of Tree Crown Shape from Scanned Data. In: Proceedings of Third International Conference of E-Learning and Games - Edutainment 08. Nanjing, China. Z. Pan et al. (Eds.): Edutainment 2008, LNCS 5093, p. 745-756, 2008.

Education

- Dec. 1987: PhD thesis in Computer Science, University of Strasbourg.
- Sept. 1985: D.E.A. (master degree) in Computer Science, University of Strasbourg.
- June 1984: Master in Computer Sciences applied to Management (MIAGE, MST), Uni. of Mulhouse.
- June 1980: Baccalauréat C (Mathematics), Lycée Bartholdi, Colmar.

Past positions

- Nov. 2006 - Nov. 2008: Engineer Specialist at INRIA Saclay, EPI DigiPlante Team (INRIA / Ecole Centrale Paris CIRAD).
- July 2006 - Oct. 2006: Senior Researcher at CIRAD-AMAP (UMR BBAP, Cirad/Inra/Cnrs/Montpellier Univ. II/ IRD)
- Aug. 2001 - July 2006: Senior Researcher in LIAMA (Beijing - PR CHINA).
- Jan. 2002 - June 2006: Guest Professor of Chinese Academy of Sciences. Beijing Information Sciences and Technology Graduate School (Master level).
- Jan. 2002 - Jan. 2006: French Director of LIAMA (Beijing - PR CHINA).
- June 1999 - July 2001: Scientific Direction of CIRAD. Research co-ordinator in charge of Applied Mathematics and Computer sciences.
- Jan. 1991 - June 1999: CIRAD/AMAP: Head of the MEB-C2000 Team (Volume imaging: with medical, forestry, agro-production applications).
- Jan. 1989 - Dec 1990: Research Engineer at CIRAD-AMAP. Plants simulation and landscape design and visualisation.
- Jan. 1988 - Dec 1988: National service. EELAT helicopter school. Analysis/Development of E-learning and 3D simulators systems.
- Feb. 1984 - Dec 1987: Research fellowship at CIRAD (plant growth simulation and visualisation, Master/PhD).
- Jan. 1983 - Sep. 1983: IS in Management: Analyse, conception and development Beghin Say SA. (extended MST Master internship)

Teaching activities.

- 2002 -> 2006. Computer Graphics and applications in life sciences. Master Course. CAS. IST Graduate School. Beijing. Contents: Elements of computer graphics: 28 hours (12 hours practice); Natural phenomena. 6 hours (3 hours practice); Volume imaging. 6 hours (3 hours practice).
- 2003,2004. Basic Elements of Computer Graphics. Natural Phenomena, virtual plants and Landscapes. Ecole Centrale de Paris, 6 hours.
- 2001. Symposium Workshop ("Ecole chercheur INRA-CIRAD"). An introduction to Volumic imaging and its applications. June 2001, 25-28th. Montpellier.

- 1997->2001 Computer graphics. Basic elements of C.G. 40 hours course. EMA/ EERIE Institute (Ecole pour les Etudes et la Recherche en Informatique et Electronique de Nîmes, Ecole des Mines d'Alès). CG Modelling, Visualisation, Rendering, Animation.
- 1998, 1999, 2000. Conferences on "Modelling and visualisation of Natural Phenomena" at LIGIM (Laboratoire d'Informatique Graphique et d'Imagerie Numérique de l'Université Claude Bernard à Lyon), LIRMM (Laboratoire d'Informatique de Robotique et de Micro-électronique de Montpellier, Université des Sciences et Techniques du Languedoc).
- 1995,1999. Conferences on Medical Imaging and its applications for Biometry, geometrical modelling, Computer prosthesis design at Faculty of Medecine of Montpellier and Faculty of Dentistry of Toulouse

Ph.D. Students

- Vincent le Chevalier, Ecole Centrale de Paris, Functional Landscapes (Plant and crops models in interaction with water cycle models). 2006-2010;
- Heaven WU, China Agricultural University (CAU), 3D reconstruction of wheat roots from microscopic slices, 2005-2009.
- QingQiong Deng, CASIA, Virtual plant foliage LOD and multiresolution models, 2004-2008.
- Chao Zhu, CASIA, Defining plant and tree geometry from their production equations, 2005->
- Mei Xing, CASIA, Landscape visualisation and rendering, 2004-2006;
- Teng Jun, CASIA, GPU based Multilevel Plants and tree visualisation, 2002-2007.
- ZhiFeng Cai, CASIA, Image Registration with non linear elastic models, 2000-2004.
- Stéphane Chemouny, Univ. Montpellier II, 3D non linear image filtering, 1997-2001.
- Frédéric Banégas, Ecole des Mines de St Etienne, 3D geometric solid characterisation, 1997-2000.

Scientific animation

- 2005, GreenLab 2nd Workshop, 55 participants, Beijing June 2005
- 2004. GreenLab First Strategy Workshop, Beijing, 45 participants, October 2004
- 2003. Main board and Organiser of PMA03, The 2003' International symposium on plant growth models and their applications. Beijing, October 2003.
- 2000-2001: Organiser of several scientific animations on: freeware, plant geometry, image processing, stem modeling, models in decision support tools (agronomy), software engineering.
- Organizer of the Volume Imaging School. June 25-28th, 2001, Montpellier.

International events organisation

- ->2010. Main board and Coorganiser of LandMod2010, the 2010 International Conference on Integrative Landscape Modelling website. Montpellier SupAgro, February 3-5, 2010
- ->2009. Main board and Organiser of PMA09, The 2009' International symposium on plant growth models and their applications. Beijing.
- 2005. Organiser of STIC-ASIA 05 workshop October 24-26th 2005 in Beijing.
- 2003. Main board and Organiser of PMA03, The 2003' International symposium on plant growth models and their applications. Beijing.

Committees, positions

- Reviewer for Annals of Botany, Journal of Computer Sciences and Techniques, Journal of Virtual Reality (2006/2007/2010)
- Reviewer for Eurographics: EG02,EG03,EG05,EG06,EG08 Siggraph:SIG06, and other conferences (CARI00,04,08, Edutainment 08)
- Participation to LIAMA's Scientific Committee (2000 / 2001, suppliant to F. Houllier, representing CIRAD)
- Expert Member of C2I2MEAD "Environment and sustainable development" certificate definition (MEN-MESR SG/STSI)
- Registered at Eu-Cordis expert database (IST priority, and Co-operation with Asia)
- Member of the Sino-French committee for the Sino-French Centre of Sciences and Technology (February-July 2001)
- IEEE member since 2000

Research project co-ordination or major contribution

- Agropolis Fondation RTRA (Computational Plants and eco-systems) 0902-016 Project. Co-ordinator. 2009->. VLS-LRC Virtual Landscapes in Languedoc Roussillon and Catalogna. Thematic regional network dedicated to reunforce collaborative projects on virtual landscapes and eco-systems 3D visualisations.
- Agropolis Fondation RTRA (Computational Plants and eco-systems) 0902-012 Project. Co-ordinator. 2009->. PMA09 third Interntional Symposium on Plant Growth Modeling, Simulation and Applications.
- Agropolis Fondation RTRA (Computational Plants and eco-systems) 0803-021 Project. 2008->. Co-ordinator. Integrative ecosystems & landscape modelling Model level integration for understanding and managing human influenced ecosystems at the landscape scale.
- ANR/Bioenergies/Emerge, 2009->. Co-ordinator for Cirad Partner. Tals 3. Volume imaging (CT scans) and 3D reconstructions

geometry analysis.

- ANR/MMSA/Project Natsim 2006-> 2008. Co-ordinator of work-package 3. Virtual landscape rendering.
- REVPE. Accepted Marie Curie OIF of Philippe Decaudin (INRIA to LIAMA, planned starting spring 2006). First Marie Curie OIF from EU to China.
- LIAMA 2001-08 Project. Advanced medical imaging methods for Hominid Morphology studies. French project co-ordinator. 2002-2003.
- Co-ordinator of the CIRAD Research Initiative Action "Methods and Software Tools for Wood Resource Evaluation". 1999-2000.
- National Project SICRODEF (Ademe funded, 1997-1999). 3D stem geometrical modelling, sawing simulation, adaptive 3D meshes for mechanics.
- EU Fair CT 1915 project STUD (FP4, 1995-1999). Contributor in Work-package 5. Resource evaluation software development and 3D image processing research developments.
- EU Fair PL project OAKKEY (FP4, 1994-1998). Co-ordinator of Work-package 4. 3D simulation and software developments.
- Main contributor in several local projects with Montpellier Hospitals (1993-1998): Embryology, Liver oncology, Wrist and Foot biometry.
- Main contributor in several local projects with University Paul Sabatier of Toulouse and Clinic Pasteur of Toulouse (1994-1998): 3D Cephalometry. Server application is installed in Toulouse (CNUT, 1996) with clients in Faculty of Dentistry and Odontology.

Running projects:

- Involved in RTRA Agropolis Fondation 0803-007 and 0803-021. (Landscape models and simulation platforms)
- Involved in ANR/EMERGE project. Started end 2008
- Involved in ANR/3DWorlds project. Started beginning 2008
- Involved in ARCUS Chongming Agropolis-Languedoc Roussillon project. Started 2007
- Involved in Teradata project (Pole de compétitivité Ile de France, with Thomson, INRIA, ECP, ENSMP). Started 2007
- Involved in INRIA associate team GreenLab collaboration. Started 2004.

Products. Transfer to Industry / Research and products for Industry

Transfer to Industry

- 2003-2004. Algorithms and applications (volume image processing and rendering). Supports to Technological transfer to Trigem-Ortho. Start-up in Cap Alpha, Montpellier
- 2003-2004. Algorithms and applications (volume image processing and rendering). Supports to Technological transfer to IntraSense. Start-up in Cap Omega, Montpellier
- 1984-1990. AMAP. Plant generator and Landscape renderer. Basis of the Data structure and algorithms of the current commercial AMAP Range tools (Genesys™ and Orchestra™). Technological transfer to Bionatics SA. <http://www.bionatics.com>

Industry R&D projects (exclusive designer and developer):

- Lamalou (1997-1998). Design, definition and prototype realisation of a 3D prosthesis design tool. STER Clinic and AFSTR Association, Lamalou les Bains.
- Echo 3D (1996-1998). Research and development. Conception, design, realisation, documentation. 4D Doppler US reconstruction and visualisation software tool to be integrated in a PACS. Medasys Digital Systems, Gif sur Yvette.
- Carpo (1993-1997). Research and development. Fresh Mushroom X ray internal structure analyser. Conception, design, realisation and implementation of a complete solution (X-Ray devices, protocols, software, teaching): X-ray image acquisition, film development and digitalization, image processing & registration, databases and embedded queries related to culture conditions, statistical analysis, data management. France Champignon S.A., Beaufort en Vallée.

MOU-Agreements

- 2005. Research co-operation MOU: Ecole Centrale de Paris - LIAMA
- 2005. Research co-operation MOU: INPT-LIAMA
- 2003. Research co-operation – industry agreement: Agreement France Telecom R&D - LIAMA
- 2003-2006: Negotiations, contracts/agreements between LIAMA and local partners: Tsinghua Press, French Embassy, Hotels, Air France

CDROM, Communication and WebSites

- CDROM. "Initiation a l'imagerie volumique". Courses, References, Tools. 2001.
- CDROM. "Computer Graphics". Courses, Tools and References 2003-2006 (annual update).
- Liama's Short news. Twice monthly letter. Designer and main redactor. <http://liama.ia.ac.cn/news.htm/>
- Web sites :Conception and development

PMA09 International web site: <http://pma.cirad.fr>

Personal page: <http://agents.cirad.fr/index.php/Marc+Jaeger>

Liama's web site: <http://liama.ia.ac.cn>

PMA'03 International web site: <http://pma.cirad.fr/PMA03>

GreenLab project web site: http://liama.ia.ac.cn/gl_index.htm

CIRAD/Scientific delegation MIA site: <http://mageos.ifrance.com/miacirad/>

Languages:

- French (native)
- English,
- German (spoken),
- Chinese (very basic notions, spoken)

References (List updated on February 10th, 2010)

Conferences (international with proceedings)

- Vincent Le Chevalier, Marc Jaeger. Bottom-up approach of landscape simulation leading to a generic synchronization. Accepted as to LandMod 2010, Montpellier, February 3-5, 2010, France
- Marc Jaeger, Jinyuan Jia, Xiaopeng Zhang, Sebastien Griffon. VR Web based tree and vegetation representations for environmental applications and studies, an example on ChongMing Island. Accepted to LandMod 2010, Montpellier, February 3-5, 2010, France
- Ruoxi Sun, Jinyuan Jia, Hongyu Li, Marc Jaeger. Image-based Lightweight Tree Modeling. In: Proceedings of the 8th international Conference on Virtual Reality Continuum and Its Applications in industry (Yokohama, Japan, December 14 - 15, 2009). S. N. Spencer, Ed. VRCAI '09. ACM, New York, NY, pp. 17-22
- Ruoxi Sun, Jinyuan Jia and Marc Jaeger, "Intelligent Tree Modeling Based on L-system". IEEE 10th International Conference on Computer-aided Industrial Design & Conceptual Design. November 26-29, 2009, Wenzhou, China
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- Paul-Henry Cournède, Thomas Guyard, Benoît Bayol, Sébastien Griffon, François de Coligny, Philippe Borianne, Marc Jaeger and Philippe de Reffye. A Forest Growth Simulator Based on Functional-Structural Modelling of Individual Trees. In: Li, B. and Jaeger, M. and Guo, Y. (Eds). 2010. Proceedings of Plant growth Modeling, and their Applications (PMA09), Beijiing, China, November 9-13, 2009, IEEE CPS, pp. 34-41
- Guanbo Bao, Xiaopeng Zhang, Wujun Che and Marc Jaeger. Billboards for Tree Simplification and Real-time Forest Rendering. In: Li, B. and Jaeger, M. and Guo, Y. (Eds). 2010. Proceedings of Plant growth Modeling, and their Applications (PMA09), Beijiing, China, November 9-13, 2009, IEEE CPS, pp. 433-440
- Chao Zhu, Xiaopeng Zhang and Marc Jaeger. New Method for Construction of Tree Crown from Scanned Data. In: Li, B. and Jaeger, M. and Guo, Y. (Eds). 2010. Proceedings of Plant growth Modeling, and their Applications (PMA09), Beijiing, China, November 9-13, 2009, IEEE CPS, pp. 352-359
- Vincent Le Chevalier, Marc Jaeger and Paul-Henry Cournède. Synchronisation Formalism, Resource and Plant Models for Plant Ecosystem Simulation. In: Li, B. and Jaeger, M. and Guo, Y. (Eds). 2010. Proceedings of Plant growth Modeling, and their Applications (PMA09), Beijiing, China, November 9-13, 2009, IEEE CPS, pp. 277-284
- Haiwen Wu, Marc Jaeger, Mao Wang, Baoguo Li and Baogui Zhang. 3D-Reconstruction and Visualization of Xylem Vessels of Wheat Nodal Root. In: Li, B. and Jaeger, M. and Guo, Y. (Eds). 2010. Proceedings of Plant growth Modeling, and their Applications (PMA09), Beijiing, China, November 9-13, 2009, IEEE CPS, pp. 384-390
- Hongjun Li, Xiaopeng Zhang, Wujun Che and Marc Jaeger. Smooth Transition between Different Plant Leaves Models. In: Li, B. and Jaeger, M. and Guo, Y. (Eds). 2010. Proceedings of Plant growth Modeling, and their Applications (PMA09), Beijiing, China, November 9-13, 2009, IEEE CPS, pp. 376-383
- Xiaopeng Zhang, Jianfei Liu, Zili Li, Marc Jaeger. Volume Decomposition and Hierarchical Skeletonization. In: Proceedings of VRCIA 2008 Conference, 8-9 December 2008, Biopolis, Singapour.
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- Chao Zhu, Xiaopeng Zhang, Baogang Hu, Marc Jaeger. Reconstruction of Tree Crown Shape from Scanned Data. In: Proceedings of Third International Conference of E-Learning and Games - Edutainment 08. Nanjing, China. Z. Pan et al. (Eds.): Edutainment 2008, LNCS 5093, p. 745-756, 2008.
- Qingqiong Deng, Xiaopeng Zhang, Xiangdong Lei, Marc Jaeger. Fast Forest Visualization on Hierarchical Images and Visibility, Proceedings of FSPM2007, the 5th International Workshop on Functional Structural Plant Models, November 4-9, 2007, Napier, New Zealand.
- Qingqiong Deng, Xiaopeng Zhang, Marc Jaeger. View-Dependent Hierarchical Foliage Simplification. In: Technologies for E-learning and Digital Entertainment: Second International Conference, Edutainment 2007, Hong Kong, China, June 11-13, 2007, K.-C. Hui, Z.-G. Pan, R.-C.-K. Chung, C.-C.-L. Wang, X.-G. Jin, S. Gobel, C.-L. Li (editors), LNCS, Springer, p. 44-55, June 2007.
- Vincent Le Chevalier, Aurélien Lesluye, Marc Jaeger, Xing Mei, and Paul-Henry Cournède. A Functional Landscape Prototype to simulate Water Resource competition between Plants. In : T. Fourcaud and XP. Zhang, (Eds), Proceedings of Plant growth Modeling, simulation, visualization and their Applications, IEEE Computer Society (Los Alamitos, California), 2007, p. 124-131
- QingQiong Deng, Xiaopeng Zhang, Marc Jaeger, 2006. Efficient Multiresolution of Foliage For Real-time Rendering. In: T. Fourcaud and XP. Zhang, (Eds), Proceedings of Plant growth Modeling, simulation, visualization and their Applications, IEEE Computer Society (Los Alamitos, California), 2007, p. 307-314
- Jun Teng, Baogang Hu, Marc Jaeger. Fast Tree Ambient Occlusion Approximation. In: T. Fourcaud and XP. Zhang, (Eds), Proceedings of Plant growth Modeling, simulation, visualization and their Applications, IEEE Computer Society (Los Alamitos, California), 2007, p. 319-322
- Xing Mei, Marc Jaeger, Baogang Hu. An Effective Stratified Sampling Scheme for Environment Maps with Median Cut Method. In:

- Springer Verlag Lecture Notes of Computer Sciences. Proceedings of CGIV06 3rd International Conference on Computer Graphics, Imaging and visualisation, Sydney, Australia, July 26-28, 2006. University of Technology of Sydney, IEEE Computer Society, p. 384-389
- Xiaopeng Zhang, Frederic Blaise, Marc Jaeger. Multiresolution Plant Models with complex organs. Proceedings of ACM VRCIA 2006, p. 331-334, June 14-17th Hong-Kong, China
 - WeiWei Yin, Marc Jaeger, Jun Teng, Baogang HU. Modelling and Sampling Ramified Objects with SubStructure based Method. V.S. Suderam et al. (Eds): ICCS 2005, Atlanta, May 2005 USA. LNCS 3515 p. 322-326, 2005. Springer-Verlag Berlin Heidelberg 2005
 - Kang, M. Z., Yan, H. P., de Reffye, P., Jaeger, M., Hu, B. G. Houllier, F., 2004. A fast algorithm for calculating stem and branch radial growth in a tree. In: G. Nepveu (Ed.) Connection between Forest Resources and Wood Quality: Modelling Approaches and Simulation Software, Harrison Hot Springs Resort, British Columbia, Canada 8-15/09/2002, Nancy: LERFoB INRA-ENGREF; p. 290-297.
 - Dong Wei, Liu Jinyi, Marc Jaeger, Zhu Qizhi, Du Xiangke. Reconstruction and remedy of Virtual 3D Images of Fossils. Proceedings of the Ninth Annual Symposium of the Chinese Society of Vertebrate Paleontology, Beijing. China Ocean Press, vol. 175, no. 181, 2004. (In Chinese with English abstract).
 - Jaeger M., Teng J., "Tree and Plant volume imaging. An introductive study towards voxelized functional landscapes". Proceedings of PMA03, Beijing October 2003. p. 169-181.
 - Yan H., Jean François B., De Reffye P., Hu B., Jaeger M., Leroux J. 2003. Fast Algorithms of Plant Computation Based on Substructure Instances. International Conferences in Central Europe on Computer Graphics, Visualization and Computer Vision, vol. 3, no. 10, 2003, p. 145-153
 - Zhifeng CAI, Hanqing LU, Marc Jaeger, "Elastic registration incorporating geometry-based shape information", Proceedings of Second International Conference on Image and Graphics, Hefei, China, Aug. 16-18, 2002. Wei Sui Ed., SPIE Vol. 4875, p. 988-992, 2002
 - Zhifeng CAI, Hanqing LU, Marc Jaeger, "Non-rigid Image Registration Using Hybrid Elastic Models", Proceedings of ICDIA 2002, International Conference on Diagnostic Imaging and Analysis, Aug. 18-20, 2002, Shanghai, China. Shanghai Scientific and Technological Literature Publishing House, p. 145-150, 2002.
 - Banégas F., Jaeger M., Michelucci D., Roelens M., 2001. The ellipsoidal skeleton in medical applications. In : 6th ACM Symposium on Solid modeling and Applications, Ann Arbor, Michigan USA 4-8/06/2001, ACM.
 - Bonnel F., Borianne P., Bonnel C., Jaeger M., Cyteval C., 2000. Biometrics Three-dimensional of Fore-foot assisted by computer C2000. In : AFCP, 2nd international spring meeting, Bordeaux, France, May 4-5-6 2000
 - El Homazi M. A., Zirari A., Dollé V., Dautat J., Jaeger M., Lecoustre R., Oihabi, A., 2000. Modeling of the architecture of the date palm. Methodology and applications. In : Date palm international symposium, Sam Nujoma (Ed.), Windhoek, Namibia, 22-25/03/2000, p. 45-46.
 - Malézieux E., Trébuil G., Jaeger M. (Eds), 2001. Modéliser les agroécosystèmes et aide à la décision. In : Malézieux E., Trébuil G., Jaeger M. (Eds), 2001. Modélisation des agro-écosystèmes et aide à la décision. CIRAD, Montpellier, coll. "Repères", coédition INRA, p. 17-33
 - Banégas F., Michelucci D., Roelens M., Jaeger M., 1999. Ellipsoidal skeleton for multi-scaled solid reconstruction. In: Proceedings of the Swiss Conference of CAD/CAM, A. Belhi, P.J. Erard and A. Bouras (Eds), Neuchatel, Suisse 22-24/02/1999; p. 33-40.
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