

Publications

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Peer reviewed articles. Revues scientifiques à comité de lecture. (43 items)

- Lemiere, L., Jaeger, M., Gosme, M., & Subsol, G. (2023). Combinatorial maps, a new framework to model agroforestry systems. *Plant Phenomics*, 5, 0120
- Adji B.I., Letort, V., Wang, X.J., Kang, M.G., de Reffye, P., Jaeger, M., Cilas, C., Kouassi, K.H., Duminil, J., Sabatier, S., and et al., 2023. Rethinking Iconic Species Reforestation in West Africa: Seed Shape Harnessing Is Strategic for Enhanced Germination and Vigorous Growth in *Khaya senegalensis* and *Parkia biglobosa*. *Forests* 14, no. 7: 1311. <https://doi.org/10.3390/f14071311>
- E.M Triki, H., Ribeyre, F., Pinard, F., Jaeger, M., 2023. Coupling plant growth models and pest & disease models: an interaction structure proposal, MIMIC. July 2023, accepted to *Plant Phenomics*.
- Adji, B.A., Akaffou, D.S., Letort, V., Kang, M.G., Wang, X.J., Jaeger, M., De Reffye, P., Kouassi K.H., Houphouet, Y.P., Duminil, J., Caraglio, Y., & Sabatier, S., 2022. The Architectural Unit Setting up and Architectural Characteristics of Néré, *Parkia biglobosa*, Jack, R. Br. (Fabaceae). *American Journal of Plant Sciences*, 2022, 13 (1), pp.109 – 136
- de Reffye, P., Hu, B., Kang, M., Letort, V., & Jaeger, M., 2021. Two decades of research with the GreenLab model in Agronomy. *Annals of Botany*, 127(3), 281-295
- Adji, B.I., Akaffou, D.S., Kouassi, K.H., Houphouet, Y.P., De Reffye, P., Duminil, J., Jaeger, M., and Sabatier, S., 2021. Allometric models for non-destructive estimation of dry biomass and leaf area in *Khaya senegalensis* (Desr.) A. Juss (Meliaceae), *Pterocarpus erinaceus* Pear.(Fabaceae) and *Parkia biglobosa*, Jack, R. Br.(Fabaceae). *Trees* (2021): 1-15
- Letort, V., Sabatier, S., Okomas, M.P., Jaeger, M., de Reffye, P., 2020. Internal trophic pressure, a regulator of plant development? Insights from a stochastic functional–structural plant growth model applied to *Coffea* trees. *Annals of Botany*, 126(4), 687-699
- Guo, J.-W., Xu, S.-B., Yan, D.-M., Cheng, Z.-G., Jaeger, M., X. Zhang, X.-P., 2020. Realistic Procedural Plant Modeling from Multiple View Images. *IEEE Transactions on Visualization and Computer Graphics*, Institute of Electrical and Electronics Engineers, 2020, 26 (2), 1372-1384. (10.1109/TVCG.2018.2869784)
- Kang, M.-G., Hua, J., Wang, X.-J., de Reffye, P., Jaeger, M., Akkafou, S., 2018. Estimating Sink Parameters of Stochastic Functional-Structural Plant Models Using Organic Series-Continuous and Rhythmic Development. *Frontiers in Plant Science*, Frontiers, 2018, 9 (1688), (10.3389/fpls.2018.01688)
- Tondjo, K., Brancheriau, L., Sabatier, S.-A., Kokutse, A. D., Kokou, K., Jaeger, M., de Reffye, P., Fourcaud, T., 2018. Stochastic modelling of tree architecture and biomass allocation: application to teak (*Tectona grandis* L. f.), a tree species with polycyclic growth and leaf neof ormation. *Annals of Botany*, 121 (5): 1397-1410.
- Zhang, Y. X., Bao, G., Meng, W., Jaeger, M., Li, H., Deussen, O., Chen, B., 2017. Tree branch level of detail models for forest navigation. *Computer Graphics Forum*, 36 (8): 402-417.
- Guilhem Brunel, Philippe Borianne, Gérard Subsol, Marc Jaeger, Yves Caraglio., 2014. Automatic Identification and Characterization of Radial File in Light Microscopic Images of Wood. *Annals of Botany*, 114 (4), pp. 829-840
- Yan Guo, Thierry Fourcaud, Marc Jaeger, Xiaopeng Zhang, Baoguo Li. Plant growth and architectural modelling and its applications, 2011. April 1st, 2011 *Annals of Botany*. Vol 107, No 5, 723-727 Doi:10.1093/aob/mcr073. Url: <http://aob.oxfordjournals.org/content/107/5/723.abstract>

- Haiwen Wu, Marc Jaeger, Mao Wang, Baoguo Li, and Bao Gui Zhang, 2011. Three-dimensional distribution of vessels, passage cells and lateral roots along the root axis of winter wheat (*Triticum aestivum*) April 1st, 2011. *Annals of Botany*. Vol 107, No 5, pp. 843-853 Doi:10.1093/aob/mcr005 Url: <http://aob.oxfordjournals.org/content/107/5/843.abstract>
- 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
- Xiaopeng ZHANG, Qingqiong DENG, Marc JAEGER. Level of detail technique for plant models. *Chinese Journal Of Stereology and Image Analysis*, 2006, vol.11, no.4, p. 235-242
- Wang, J., Hu, B.G., Teng, J. et Jaeger, M., 2003. Deformable Virtual plant organ modeling software based on GreenLab model. In: *Proceedings of the 11th National Conference on Image and Graphics*, Shanghai, Chine octobre 2003. *Journal of Image and Graphics*, vol. 8(A); p. 847-851.
- Cai ZhiFeng, Lu Hanqing, Jaeger Marc. Deformable Image Matching using Hybrid Elastic Models. *Journal of Image and Graphics*, vol. 8, no. 7, Jul 2003, p. 753-758
- Treil J., Borianne P., Casteigt J., Jaeger M., Madrid C., 2001. A 3D model of the human face. In *Journal of Dental Research*, vol. 80, no. 4, p. 1202
- Canovas, F., Banegas, F., Cyteval, C., Jaeger, M., DiMeglio, A., Bonnel, F., & Sultan, C. 2000. Carpal bone maturation assessment by image analysis from computed tomography scans. *Hormone Research*. vol. 54, no. 1, p. 6-13.
- Canovas F., Jaeger M., Diméglio A., Bonnel F., Sultan C., 2000. L'évaluation de la maturation des os du carpe par analyse d'image: une alternative à l'âge osseux ou un outil complémentaire ? *Archives de Pédiatrie*, 2000, vol. 7, no. 9, p. 976-981.
- Prudhomme M., Gaubert-Cristol R., Jaeger M., de Reffye P., Godlewski G., 1999. A new method of three dimensional computer assisted reconstruction of the developing biliary tract. In : *Surgical and Radiology Anatomy*, vol. 21, p. 55-58, 1999.
- Treil J., Casteigt J., Borianne P., Madrid C., Jaeger M., de Bonnacaze P., 1999. L'équilibre architectural de la face: un nouveau concept céphalométrique 3D. In *Revue de stomatologie et de chirurgie maxillo- faciale*. no100, vol. 3, p. 111-122.
- Boucays F., Madrid C., Borianne P., Casteigt J., Jaeger M., 1998. Approche statistique de la céphalométrie tridimensionnelle de Treil. In: *Biométrie Humaine et Anthropologie*, vol. 16, no. 1-2, p. 67-76
- Madrid C., Boucays F., Casteigt J., Borianne P., Jaeger M., 1998. Treil's cephalometric analysis: A statistical approach. In: *Journal of Dental Research*, no. 77, p. 3135

- F. Canovas, M. Jaeger, A. Couture, Ch. Sultan and F. Bonnel, 1998, Carpal bone maturation during childhood and adolescence: Assessment by quantitative computed tomography. In: Surgical and Radiologic Anatomy Publisher Springer Paris ISSN 0930-1038, vol. 19, no. 6, March, 1998
- Treil J., Casteigt J., Madrid C., Jaeger M., Borianne P., 1997. Une nouvelle construction céphalométrique tridimensionnelle. Un nouveau paramètre d'analyse tridimensionnelle : les axes d'inertie. Un nouveau concept : l'équilibre maxillo-facial. In : Bulletin de l'Orthodontie française, 1997. Tome I, no 68, p. 171-181.
- Treil J., Madrid C., Jaeger M., Casteigt, J., Borianne P., 1997. Maxillofacial 3D biometry. In Biom. Hum. Et Anthropol., 1997. Vol. 15, no. 1-2, p. 65-73.
- Treil J., Casteigt J., Madrid C., Jaeger M., Borianne P., 1997. Pour une céphalométrie tridimensionnelle. In : Informations Dentaires, no 2, janvier 1997, p. 103-104.
- Joyeux H., Jaeger M., Borianne P., Masson B., 1996. Application de l'infographie tridimensionnelle en cancérologie. In: Bulletin de l'Académie Nationale de Médecine, vol. 180, no. 6, p. 1455-1466, Juillet. 1996.
- Treil J., Casteigt J., Roch P., Jaeger M., Cavezian R., Pasquet G., 1994. La charpente maxillo-mandibulaire. Nouvelle approche cranio-faciométrique tridimensionnelle. In: Actualités Odontostomatologiques, n°188, déc. 1994, p. 627- 637.
- Fournier M., Rogier P., Coste E., Jaeger M., 1993. Modélisation mécanique des vibrations propres d'un arbre soumis aux vents, en fonction de sa morphologie. In: Annales des Sciences Forestières, vol. 501, no. 4, p. 401-412
- Jaeger M., De Reffye P., 1992. "Basic concepts of computer simulation of plant growth". In: Journal of Biosciences, 1992. vol. 17, no. 3, p. 275-291.
- Edelin, C., de Reffye, P., Jaeger, M., Dinouard, P., 1989. La simulation de l'architecture des arbres et son rôle potentiel dans la conception et la gestion des paysages urbains. Revue Forestière Française, No 41 (n sp. "L"), pp. 143-153.
- De Reffye P., Edelin C., Jaeger M., 1989. "La modélisation de la croissance des plantes ". La Recherche (FRA), 1989. vol. 20, no. 207, p. 158-168.
- De Reffye P., Edelin C., Jaeger M., 1989. "Modelli di crescita delle piante ". Scienza e Tecnica. Annuario della Estratti (ITA), 1989. no 89-90, p. 205-216.
- De Reffye P., Edelin C., Jaeger M., 1989. "Computer simuliert Pflanzenwachstum : die grüne Zeitmaschine ". Bild der Wissenschaft (DEU), 1989. no. 8, p. 47-52. - Traduction allemande d'un article paru dans "La Recherche", 1989, no. 207.
- De Reffye P., Cognée M., Jaeger M., Traoré B., 1988. "Modélisation stochastique de la croissance et de l'architecture du cotonnier. 1. Tiges principales et branches fructifères primaires ". Coton et Fibres Tropicales (FRA), 1988. vol. 43, no. 4, p. 269-291.
- Dinouard P., De Reffye P., Jaeger M., 1987. "Modélisation et simulation de l'architecture de l'hévéa". Revue Générale des Caoutchoucs et Plastiques (FRA), 1987/11. vol. 64, no. 673, p. 53-55.

Books and book chapters. Ouvrages et chapitres d'ouvrage (19 items)

- de Reffye, P., Jaeger, M., Barthélémy, D., Houllier, F., 2018. Architecture des plantes et production végétale. Les apports de la modélisation mathématique. Versailles: Quae: 357 p.
- de Reffye, P., Jaeger, M., Mathieu, A., 2018. Applications de la modélisation de l'architecture des plantes. In Barthélémy, D., de Reffye, P., Houllier, F., Jaeger, M. (Eds). Architecture des plantes et production végétale. Les apports de la modélisation mathématique. Versailles: Quae, 293-328 p. (Synthèses).
- Hu, B. G., Barthélémy, D., de Reffye, P., 2016. La simulation des structures et des architectures végétales. In Barthélémy, D., de Reffye, P., Houllier, F., Jaeger, M. (Eds) Epub. Architecture et croissance des plantes. Modélisation et applications. Versailles : Quae (Synthèses).
- Jaeger, M., Subsol, G., 2016. Modèles pour la représentation et la visualisation des plantes et des paysages. In Barthélémy, D., de Reffye, P., Houllier, F., Jaeger, M. (Eds) Epub. Architecture et croissance des plantes. Modélisation et applications. Versailles : Quae (Synthèses).
- de Reffye, P., Jaeger, M., 2016. Applications diverses de l'architecture des plantes. In Barthélémy, D., de Reffye, P., Houllier, F., Jaeger, M. (Eds) Epub. Architecture et croissance des plantes. Modélisation et applications. Versailles : Quae (Synthèses).
- Jaeger, M., 2016. Calibration, implémentation et mise en œuvre de GreenLab. In Barthélémy, D., de Reffye, P., Houllier, F., Jaeger, M. (Eds) Epub. Architecture et croissance des plantes. Modélisation et applications. Versailles : Quae(Synthèses).
- de Reffye, P., Jaeger, M., Barthélémy, D., Houllier, F., 2016. Architecture et croissance des plantes. Modélisation et applications. Paris: Quae (epub).
- de Reffye, P., Jaeger, M., 2013. Modèles mathématiques du développement et de la croissance de l'architecture des plantes. Le cas du modèle GreenLab. In Varenne, F., Silberstein, M. (Eds). Modéliser et simuler. Epistémologies et pratiques de la modélisation et de la simulation. Tome 1, vol. 2. Paris : Editions Matériologiques (Sciences et Philosophie). pp. 629-662
- Baoguo Li, Marc Jaeger and Yan Guo(Eds). 2010. Proceedings of Plant growth Modeling, and their Applications (PMA09), Beijing, China, November 9-13, 2009, IEEE CPS, 454 p. Url: <http://www.computer.org/portal/web/csdl/doi/10.1109/PMA.2009.9>
- Jean-Christophe Fabre, Marc Jaeger, Xavier Louchart, Jean-Pierre Muller. Proceedings of LandMod 2010: International Conference on Integrative Landscape Modelling, Montpellier, February 3-5, 2010, France, ISBN 978-2-7592-0859-3, Quae editions, Url: <http://www.symposcience.org/exl-php/colloques/53-colloque.htm>
- Lecoustre R., Griffon S., Jaeger M., Elhoumaizi M.A. 2010. Modélisation de l'architecture et de la croissance des Arecaceae. In : Aberlenc-Bertossi Frédérique (ed.). Biotechnologies du palmier dattier. Paris : IRD [Paris], p. 157-160 Séminaire du réseau AUF-BIOVEG "Biotechnologies du palmier dattier". 3, 2008-11-18/2008-11-20, Montpellier, France
- 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, Url: <http://sciyo.com/articles/show/title/volume-decomposition-and-hierarchical-skeletonization-for-shape-analysis?PHPSESSID=9dheklc04jp2tflh9qdhoiqjd1>
- Lecoustre R., Griffon S., Jaeger M., Elhoumaizi M.A. 2010. Modélisation de l'architecture et de la

croissance des Arecaceae. In : Aberlenc-Bertossi Frédérique (ed.). Biotechnologies du palmier dattier. Paris : IRD [Paris], p. 157-160 Séminaire du réseau AUF-BIOVEG "Biotechnologies du palmier dattier". 3, 2008-11-18/2008-11-20, Montpellier, France.

- 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, Aux origines des plantes. Fayard, 2008
- Hu Baogang, Jaeger Marc. Proceedings of PMA03 (Eds). International symposium of plant growth models and their applications. October 2003, Beijing. Springer Verlag, Tsinghua University Press. 2003, 435 p.
- Malézieux E., Trébuil G., Jaeger M. (Eds). 2001. Modélisation des agro-écosystèmes et aide à la décision. CIRAD, Montpellier, coll. "Repères", coédition INRA, 450p
- Blaise F., Barczy J.-F., Jaeger M., Dinouard P., de Reffye P., 1998. Simulation of the growth of plants - Modeling of metamorphosis and spatial interactions in the architecture and development of plants. In: Cyberworlds. Springer-Verlag, Tokyo, p. 81-109, 1998.
- Contribution (texte et illustrations) à l'ouvrage de vulgarisation de Beatrice Poinssac. Collection "Que sais-je ?". No 1800. L'infographie. Editions Presses Universitaires de France. 1994, 129 p.
- Lecoustre, R., de Reffye, P., Jaeger, M., and Dinouard, P. 1992. Controlling the architectural geometry of a plant's growth - Application to the Begonia genus. In Creating and Animating the Virtual World, N. Magnenat Thalmann and D. Thalmann, Eds. Springer Computer Animation Series. Springer-Verlag New York, New York, NY, 199-214.

International conferences proceedings. Actes de conférences à comité de lecture. (87 items)

- Tresson, P., Dumont, M., Boivin, S., Youssef, S., Taugourdeau, O., Goëau, H., Jaeger, M., Borne, F., Bouksim, H., Mohamed, A., Almalki, S., 2023. Taugourdeau, O., 2023. Remote sensing and deep learning applied to land degradation assessment and monitoring: AIUla arid ecosystem as a case study. In: SER in 10th World Conference on Ecological Restoration, September 26-30, 2023, Darwin, Australia.
- Arsouze, T., Beurier, G., Boudon, F., Fernandez, R., Labadie, M., Perez, R., Vezy, R., Jaeger, M., Pradal, C., 2023. MaCS4Plants: A Mathematic & Computer Science Network for FSPM. FSPM2023, the 10th International Conference on Functional-Structural Plant Models (FSPM2023), Berlin, Germany, March 27-31, 2023
- Tresson, P., Dumont, M., Boivin, S., Goëau, H., Borne, F., Jaeger, M., Bouksim, H., Taugourdeau, O., 2023. Self-supervised learning of Vision Transformers for digital soil mapping in arid lands. In: Soil Mapping for a Sustainable Future, 2nd joint Workshop of the IUSS Working Groups Digital Soil Mapping and Global Soil Map, February 07-09, 2023 Orleans, France
- Lemièrre, L., Gosme, M., Subsol, G., Jaeger, M., 2022. FSPM applied to agroforestry system co-design. 7th International Symposium on Plant Growth Modeling, Simulation, Visualization, and Applications (PMA2022) Wuxi, China
- Triki, H., Ribeyre, F., Pinard, F., Jaeger, M., 2022. Coupling plant growth models, application on pest & disease models: an interaction structure proposal. 7th International Symposium on Plant Growth Modeling, Simulation, Visualization, and Applications (PMA2022) Wuxi, China
- Jaeger, M., Viennois, G., Baril, M., Borne, F., Rey, H., Nagao, Y., and Borianne, P., 2020. Virtual plants and artificial tropical forest scenes as learning samples for deep learning plant classifiers. The case of *Raphia Hookeri*. In FSPM2020: Towards Computable Plants 5-9 October 2020, Leibnitz University, Hannover, Germany
- Jaeger, M., Sabatier, S. A., De Reffye, P., Alsater, A. A., & Brancheriau, L. (2020, October). Efficient stochastic Functional Structural sympodial Shrubs Modelling based on structural hierarchy. Application to Guayule. In FSPM2020: Towards Computable Plants 5-9 October 2020, Leibnitz University, Hannover, Germany
- Brancheriau, L., Sabatier, S. A., Jaeger, M., Hemery, N., Mougani, C., De Reffye, P., Alsater, A., & Palu, S. (2020, October). Modelling the Guayule plant growth and development with a Functional Structural Plant Model. In FSPM2020: Towards Computable Plants 5-9 October 2020, Leibnitz University, Hannover, Germany
- Sabatier, S. A., Jaeger, M., Hemery, N., Mougani, C., Abed Alsater, A., De Reffye, P., Palu, S., & Brancheriau, L. (2019). Modelling the Guayule plant growth and development with a Functional Structural Plant Model, ICROPM 2020, Montpellier, S1-O08
- Ribeyre, F., Jaeger, M., Ribeyre, A., de Reffye, P., 2018. StemGL, a FSPM tool dedicated to crop plants model calibration in the single stem case. IEEE Proceedings of 6th International Symposium on Plant Growth Modeling, Simulation, Visualization and Applications (PMA'18), Nov 2018, Hefei, China. pp. 33-38, (10.1109/PMA.2018.8611601)
- De Reffye, P., Jaeger, M., Sabatier, S., Letort, V., 2018. Modelling the interaction between functioning and organogenesis in a stochastic plant growth model: Methodology for parameter estimation and illustration. IEEE Proceedings of 6th International Symposium on Plant Growth Modeling, Simulation, Visualization and Applications (PMA'18), Nov 2018, Hefei, China. pp. 102-

110, {10.1109/PMA.2018.8611628}

- Jaeger, M., Sabatier, S., Borianne, P., de Reffye, P., Letort, V., Gang, Y., Zhang, X.-P. Kang, M.-Z., 2018. Data visualization for vegetal landscapes: Building 3D representations of organ biomass compartments. How plant production could constrain 3D lollypop-like representations. IEEE Proceedings of PMA'18 Nov 2018, Hefei, China. pp. 85-93
- Jaeger, M., de Reffye, P., Sabatier, S., Letort - Le Chevalier, V., Heuvelink, E., Caraglio, Y., Motisi, N., Krit, H., Lafond, M.-H., Kang, M.-G., Zhang, B.-G. 2016. Plant growth architecture and production dynamics : A set of e-learning resources. 2016 IEEE International Conference on Functional-Structural Plant Growth Modeling, Simulation, Visualization and Applications (FSPMA), Qingdao, China, 2016, pp. 83-89. doi: 10.1109/FSPMA.2016.7818292
- Kang, M.-G., de Reffye, P., Hua, J., Jaeger, M. 2016. Parameter identification of plant growth models with stochastic development. 2016 IEEE International Conference on Functional-Structural Plant Growth Modeling, Simulation, Visualization and Applications (FSPMA), Qingdao, China, 2016, pp. 98-105. doi: 10.1109/FSPMA.2016.7818294
- Brunel, G., Borianne, P., Subsol, G., Jaeger, M., 2013. Simple-graphs fusion in image mosaic. Application to automated cell files identification in wood slices. In Kämäräinen, J. K., Koskela, M. (Eds) Image analysis: 18th Scandinavian Conference, SCIA 2013, Espoo, Finland, June 17-20, 2013 Proceedings. Berlin: Springer Verlag, 34-43 p. (Lecture notes in computer science, vol. Lecture notes in computer science).
- Brunel, G., Borianne, P., Subsol, G., Jaeger, M., Caraglio, Y., 2013. Defining reliability coefficients in an automated method of identification and characterization of radial files in microscopic images of gymnosperms. In Nikinmaa, E., Nygren, P., Sievänen, R., Godin, C., Lintunen, A. (Eds) Proceedings of the 7th International Conference on Functional Structural Plant Models, Saariselka, Finland, 9-14 June 2013. Vantaa: Finnish Society of Forest Science, 82-84 p.
- Guilhem Brunel, Philippe Borianne, Gerard Subsol, Marc Jaeger and Yves Caraglio, 2012. Automatic characterization of the cell organization in light microscopic images of wood: application to the identification of the cell file. In: Proceedings of Plant Growth Modeling, Simulation, Visualization and Applications (PMA12), Shanghai, 31 Oct. 3 Nov 2012. IEEE press. ISBN 978-1-4673-0070-4, pp. 58- 65
- Marc Jaeger, 2012. Enhancing computer generated natural scenes using quick and dirty image based recipes. In: Proceedings of Plant Growth Modeling, Simulation, Visualization and Applications (PMA12), Shanghai, 31 Oct. 3 Nov 2012. IEEE press. ISBN 978-1-4673-0070-4, pp. 164-171
- Guanbo BAO, Hongjun LI, Xiaopeng ZHANG, Wujun CHE, Marc JAEGER, 2011. Realistic Real-time Rendering for Large-scale Forest Scenes. 1st International Symposium on VR innovation (ISVRI) 19- 20 March, 2011, Singapore. pp 217-223. ISBN: 978-1-4577-0055-2. Url: http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5759637
- Hongjun Li, Xiaopeng Zhang, Marc Jaeger, Thiéry Constant. Segmentation of Forest Terrain Laser Scan Data. VRCAI '10: Proceedings of the 9th ACM SIGGRAPH Conference on Virtual-Reality Continuum and its Applications in Industry, Seoul, South Korea, 2010, Dec. 12-13. ACM New York, NY, USA. ISBN: 978-1-4503-0459-7, pp. 47-54. Url: <http://doi.acm.org/10.1145/1900179.1900188>
- Marc Jaeger, Ruoxi Sun, Jinyuan Jia, Vincent Le Chevalier. Efficient virtual plant data structure for visualization and animation. In: Proceedings of IADIS International Conferences Computer Graphics, Visualization, Computer Vision and Image Processing 2010, MCCSIS 2010 Freiburg, Germany, July 27-29, ISBN 978-972-8939-22-9, 2010 IADIS, pp. 65-75
- Vincent Le Chevalier, Marc Jaeger. Bottom-up approach of landscape simulation leading to a generic synchronization. LandMod 2010: International Conference on Integrative Landscape Modelling, Montpellier, February 3-5, 2010, France, ISBN 978-2-7592-0859-3, Quae editions, 8 p.

Url: <http://www.symposcience.org/exl-doc/colloque/ART-00002416.pdf>

- 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. LandMod 2010: International Conference on Integrative Landscape Modelling, Montpellier, February 3-5, 2010, France, ISBN 978-2-7592-0859-3, Quae editions, 8 p. Url: <http://www.symposcience.org/exl-doc/colloque/ART-00002402.pdf>
- 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 Modelling and their Applications (PMA09), Beijing, China, November 9-13, 2009, IEEE CPS, pp. 376- 383
- 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, 2009. November 26-29, 2009, Wenzhou, China. ISBN: 978-1-4244-5266-8; pp. 1096 - 1100, DOI: 10.1109/CAIDCD.2009.5375256
- 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. VRCAI '09. ACM, New York, NY, pp. 127-132
- Mingrui Dai, Xiaopeng Zhang, Yi-Kuan Zhang, Marc Jaeger, 2009. Segmentation of Point Cloud Scanned from Trees. In Proceedings of Workshop on 3D content and applications with ACCV 2009, September 24, 2009, Xian, China. pp. 1-12 Url: <http://www.mendeley.com/research/segmentation-point-cloud-scanned-trees-4>

- 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.
- 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.
- 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 14-17 thHong-Kong, China
- Daniel Auclair, Jean-François Barczi, Daniel Barthélémy, Frédéric Blaise, Yves Caraglio, Paul-Henry Cournède, Thierry Fourcaud, Patrick Heuret, Marc Jaeger, Philippe de Reffye, Grégoire Vincent. 2006. Simulation de la croissance des arbres individuels : la gamme AMAP et les modèles associés. Groupe d'Etude de l'Arbre (Ed). Proceedings of Tous les arbres ne sont pas dans la forêt. Montpellier. 2. 10-11/06/2006, Montpellier.
- 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 fonctionnal 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.
- HongPing Yan, Jean-François Barczi, Philippe de Reffye, BaoGang Hu, Marc Jaeger, Jonathan Leroux. 2002. Fast Algorithms of plant computation based on substructure instances. Journal of WSCG, 10 (1) : p. 145-153.
- 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., Dauzat 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 sketelon for multi-scaled solid reconstruction. In: Proceedings of the Swiss Conconference of CAD/CAM, A. Belhi, P.J. Erard and A. Bouras (Eds), Neuchatel, Suiss 22-24/02/1999; p. 33-40.
- Banégas F., Michelucci D., Roelens M., Jaeger M., 1999. Automatic extraction of significant features from 3D point clouds by ellipsoidal sheletons. Applications in vision and geometric characterization. In: International Conference in Visual Computing 1999 (ICVC'99), S.P. Mudur, D. Shikhare, J.L. Encarnacao and J. Rossignac (Eds), Goa, Inde 23-26/02/1999. IFIP; p. 58-67.
- Banégas F., Michelucci D., Roelens M., Jaeger M., 1999. An automatic adaptive surface reconstruction from ellipsoidal skeleton. In: 4th International workshop on implicit surfaces, J. Hugues and C. Schlick (Eds), Talence, France 13-15/09/1999. ACM Press; p. 113-122.
- Bos F., Chiorescu S., Constant T., Jaeger M., Mothe F., Thibaut B., 1999. Simulating the rotary-cutting of a softwood: modelling the variations of the veneer properties and the consequences on

the plywood quality. In : Connection between silviculture and wood quality through modelling approaches and simulation softwares, 3rd Workshop IUFRO WP S5.01-04, G. Nepveu (Ed.), La Londe-Les-Maures, France 5-12/08/1999. INRA; pp. 290-293.

- Jaeger M., Leban J. M., Chemouny S., Saint André L., 1999. 3D stem reconstruction from CT scan exams. .Third Workshop IUFRO WP S5.01-04, Topic 6, p. 399-409. Biological improvement of wood properties, La Londe-Les-Maures, France, 5-12 septembre 1999.
- Leban J. M., Jaeger M., 1999. Assessment of timber quality in the forest resources by the mean of tree growth and conversion models. A challenge for today. TCOST E10, "Wood properties for Industrial Use", 11 p., Tapada Nacional de Mafra, 13-15 june 1999.
- Banegas F., Michelucci D., Roelens M., Jaeger M., Canovas F., 1999. Hierarchical automated clustering of cloud point set by ellipsoidal skeleton application to organ geometric modeling from CT- scan images. Session 3661-128. SPIE's International Symposium in Medical Imaging 1999, 20-26 February 1999, San Diego, USA
- Chemouny S., Joyeux H., Borne F., Jaeger M. Monga O., 1999. Advanced 3D image processing techniques for liver and hepatic tumors location and volumetry. SPIE's International Symposium on Medical Imaging 1999, vol. 3661-I, p. 761-771, 20-26 february 1999, San Diego, USA.
- Constant T., Ancelin P., Fourcaud T., Fournier M., Jaeger M., 1999. The French project SICRODEF: a chain of simulators from the tree growth to the distortion of boards due to the release of growth stresses during sawing. First results. In : Connection between silviculture and wood quality through modelling approaches and simulation softwares, 3rd Workshop IUFRO WP S5.01-04, G. Nepveu (Ed.), La Londe- Les-Maures, France 5-12/08/1999. INRA; p. 377-386.
- Banegas F., Michelucci D., Roelens M., Jaeger M., 1998. Partitionnement hiérarchique automatique d'un nuage de points par squelette ellipsoidal: applications à la modélisation géométrique. Actes AFIG'98, 6e journées de l'Association française d'informatique graphique, p. 101-112.
- Borianne Ph., Jaeger M., 1996. Polygonisation réversible en imagerie médicale. Application à la visualisation de divers tissus anatomiques. In : Actes du Colloque CARI, Libreville, Octobre 1996. p. 114-123.
- Cristol-Gaubert R., Prudhomme M., Jaeger M., de Reffye P., Godlewski G., 1996. Reconstruction tridimensionnelle de l'arbre biliaire à la fin de la période embryonnaire chez l'homme et chez le rat. 78e congrès de l'association des anatomistes de langue française. Madrid, le 27 septembre 1996.
- Joyeux H., Jaeger M., Borianne P., Masson B., Culine S., Dubois J.B., 1995. Quel intérêt pour l'imagerie tridimensionnelle des tumeurs? In : Journées Régionales de Cancérologie, Montpellier, oct. 1995, p. 34.
- Treil J., Casteigt J., Roch P., Jaeger M., Cavezian R., Pasquet G., 1995. A new method for 3D cephalometry. In: Abstract off XIIth international symposium on morphological sciences, Thessaloniki, Grece, septembre 1995, p. 215-216.
- Canovas F., Prudhomme M., Jaeger M., Bonnel F., 1995. Three Dimensional reconstruction of the wrist biometry of the carpal bones. In: 4th European Congress of the European Association of Clinical Anatomy, Vien (Austria), sept. 1995, p. 192.
- Borianne Ph., Jaeger M., 1993. Représentation à base topologique sur un espace discret. In: Colloque de Géométrie Discrète en Imagerie, Fondements et applications, Strasbourg (France), 20-21 sept. 1993, p. 11-22.
- Jaeger M., Briand D., Borianne Ph., Bonnel F., 1993. Knee anatomy 3D reconstruction and visualization from CT scans. In: 2nd European Congress of the European Association of Clinical Anatomy, Munich (Germany), 5-7 sept. 1993, p. 231.

- Briand D., Jaeger M., Kiriakopoulou T., Bonnel F., Joyeux H., 1993. 3D reconstruction and computing volume of tumorous liver. Therapeutic interest of repeat CT scans during chemotherapy for hepatic metastases. In: 2nd European Congress of the European Association of Clinical Anatomy, Munich (Germany), 5-7 sept. 1993, p. 219.
- Briand D., Jaeger M., Borianne Ph., Bonnel F., 1993. Reconstruction anatomique tridimensionnelle. Visualisation par lancer de rayon à partir de coupes tomographiques. In: 75ème Congrès de l'Association des Anatomistes de France, Lille (France), 12-14 mai 1993.
- Jaeger, M., de Reffye, P., Blaise, F., 1993. Génération de végétaux en imagerie de synthèse. In Proceedings of Forum AGROFORA. Marmande, France: Forum AGROFORA, 25/11/1993, Marmande, France.
- Lecoustre, R., Jaeger, M., Quencez, P., Flori, A., de Reffye, P., 1993. Oil palm architecture and geometric modelling. Modélisation de l'architecture et de la géométrie d'*Elaeis guineensis*. In Proceedings of Update and Vision, PORIM International Palm Oil Congress (PIPOC). Kuala Lumpur, Malaisie : P10.Update and Vision, PORIM International Palm Oil Congress (PIPOC), 20-25/09/1993, Kuala Lumpur, Malaisie.
- Jaeger, M., de Reffye, P., 1991. Le logiciel AMAP: un outil de simulation et de représentation des végétaux. In de Reffye, P., Jaeger, M. (Eds). L'informatique scientifique dans l'enseignement de la biologie et de la géologie au lycée : actes du colloque. Paris, France : Institut National de la Recherche Pédagogique, p. 243-248 (Colloque Technologies Nouvelles et Education).
- de Reffye, P., Dinouard, P., Jaeger, M., 1990. Basic concepts of computer plant growth simulation. In Proceedings of Computer Graphics: Where do we go now that we've arrived? NICOGRAPH' 90. Tokyo, Japon : 219-234.
- de Reffye, P., Snoeck, J., Jaeger, M., 1990. Modélisation et simulation de la croissance et de l'architecture du Caféier. In Proceedings of 13ème Colloque International sur le Café. 21-25/08/1989, Paipa, Colombie: ASIC, pp. 523-546.
- De Reffye P., Snoeck J., Jaeger M., 1989. "Modélisation et simulation de la croissance et de l'architecture du caféier". In : ASIC. - Treizième Colloque Scientifique International sur le Café. Thirteenth International Scientific Colloquium on Coffee; 1989/08/21-25 ; Paipa (COL), Paris (FRA) : ASIC, 1990/08. p. 523-546
- De Reffye P., Jaeger M., Edelin C., Françon J., Puech C., 1988. "Plant models faithful to botanical structure and development". In: Computer Graphics, Siggraph 1988. vol. 22, p. 151-158.
- Dinouard P., De Reffye P., Jaeger M., 1988. "Modelisation and simulation of rubber tree architecture ". In : Jacob J.L. (ed.), Prévôt J.C. (ed.). - Compte-rendu du colloque exploitation-physiologie et amélioration de l'hévéa. [Proceedings of the colloquium on exploitation-physiology and improvement of hevea] Hevea 88; 1988/11/02-07; Paris, Montpellier (FRA): CIRAD-IRCA, 1988/11. p. 513-517.
- De Reffye P., Cognée M., Jaeger M., Traoré B., 1988. "Modélisation stochastique de la croissance et de l'architecture du cotonnier. 1. Tiges principales et branches fructifères primaires ". Coton et Fibres Tropicales (FRA), 1988. vol. 43, no. 4, p. 269-291.
- De Reffye P., Edelin C., Jaeger M., Blaise F., Fournie G., Bree Lefebvre V., 1987. "L'arbre et l'ordinateur ". In: Pleasure of landscape, IFLA World Congress. 14; 1987/09/01-04; Paris (FRA) : IFLA, 1988. p.198-201.
- De Reffye P., Edelin C., Jaeger M., Cabart C., 1985. "Simulation de l'architecture des arbres ". In : L'arbre, Colloque International de l'Arbre, 1985, Montpellier (FRA) : Institut de Botanique, 1986. - 17 p.

Dissertations (Research habilitation, PhD...). Mémoires (HdR, Thèse,...) (4 items)

- Marc Jaeger. Représenter et visualiser les objets naturels biologiques. De la plante au paysage. Habilitation à diriger les Recherches. Discipline Informatique. Université Blaise Pascal, Clermont-Ferrand II. December 2010, 151 p. Url: http://pma.cirad.fr/HDR_Memoire_MJ.pdf
- Jaeger M., 2000. L'informatique scientifique. Rôle, enjeux et perspectives. (Report, in French) Les documents de la direction scientifique. Document no 3. CIRAD, Montpellier, France, Juin 2000, 42 pp.
- Jaeger M., 1987. "Représentation et simulation de croissance des végétaux ". (PhD dissertation, in French) Thèse (Doctorat d'Université en Informatique), Strasbourg (FRA) : Université Louis Pasteur, 1987. - 156 p.
- Jaeger M., 1985. "Représentation de végétaux ". (Master report, in French) Mémoire (DEA Traitement graphique, Traitements d'images), Strasbourg (FRA) : Université Louis Pasteur, 1985. - 62 p.

Posters in peer reviewed conferences. Posters en conférences internationales. (6 items)

- Lemière, L., Jaeger, M., Subsol, G., Gosme., M. 2022. Graph theory applied to agroforestry system co-design. 5th World Congress on Agroforestry, Jul 2022, Québec, Canada.
- Prouteau, R., Ribeyre, F., Jaeger, M. (2021). Estimating Coffee pest and disease attacks embedded application. ASIC 2021 - 28th Conférence, Jun 2021, Montpellier, France.
- Lemière, L., Jaeger, M., Subsol, G., Gosme, M., 2021. Augmented reality for agroforestry system design. EURAF 2020, May 2021, Nuoro, Italy
- Tallaa, A., Jaeger, M., Gosme, M., 2020. Augmented reality to support the design of innovative agroforestry systems. EURAF 2020, May 2021, Nuoro, Italy
- Viennois, G., Borne, F., Jaeger, M., Borianne, P., 2018. Poster. Quelle vérité terrain pour les réseaux de neurones en imagerie drone ? Application à la détection de palmier Raphia en forêts au Gabon. Conférence Française de Photogrammétrie et de Télédétection (CFPT) 2018, 25-28/06/2018, Marne-la Vallée, France.
- Jaeger, M., Taugourdeau, O., de Reffye, P., 2016. Poster. Efficient structure development operators, application to mature tree structure simulations. . FSPMA 2016 -Functional-Structural Plant Growth Modeling, Simulation, Visualization and Applications. Qingdao, China: FSPMA 2016 - Functional- Structural Plant Growth Modeling, Simulation, Visualization and Applications, 07-11/11/2016, Qingdao, Chine.

Oral Communications and invited communications. Communications orales (13 items)

- Jaeger, M., 2018. Deep Learning imaging applications related to the vegetation (flora, Agronomy, Ecology) at AMAP Unit. Talk at China Agricultural University, Department of Environmental and Soil Sciences (CAU), 2018, November 11th, Beijing, China
- Jaeger, M., 2018. Some recent works and projects at CIRAD-AMAP unit concerning imaging applications related to the vegetation (flora, Agronomy, Ecology). Invited talk at Institute of Automation of Chinese Academy of Sciences (CASIA), 2018, November 9th, Beijing, China
- Jaeger, M., 2018. GLUVED e-learning resources presentation. Invited talk at China Agricultural University, Department of Environmental and Soil Sciences (CAU), 2018, November 11th, Beijing, China
- Jaeger, M., 2018. StemGL presentation: a FSPM tool dedicated to crop plants model calibration in the single stem case. Invited talk at China Agricultural University, Department of Environmental and Soil Sciences (CAU), 2018, November 11th, Beijing, China
- de Reffye, P., Jaeger, M., 2016. Ordre et désordre dans l'architecture des plantes. Journées nationales 2016 de l'APMED (Association des Professeurs de Mathématiques de l'Enseignement Publique). 23 Novembre 2016, Lyon, France.
- Jaeger, M., 2016. GL_UVED: An example set of e-learning resources on Plant growth architecture and production dynamics. Conference of the Lecture Note series, Institute of Automation of Chinese Academy of Sciences, 2016, November 14, Beijing, China.
- Jaeger, M., 2016. Forme - Structure modèle en équations. le cas de l'architecture des plantes. INTERSCULPT - Modèles numériques dans l'art et la nature. S. l. : INTERSCULPT - Modèles numériques dans l'art et la nature, 13 Octobre 2016, Verdun, France. <https://www.dailymotion.com/video/x5004t7>
- Jaeger, M., 2016. Imaging plant and landscape. CIRAD AMAP I2P team's topic presentation. Focus on plant communities' visualisation. Beijing Forestry University, China: Focus on plant communities visualisation, 15/10/2016, Beijing, China.
- Marc Jaeger. Développements algorithmiques au LIAMA et à AMAP. Communication aux Journées de restitution de l'ANR EMERGE. Inra Champenoux, 18-19 septembre 2013.
- Marc Jaeger. Quelques développements algorithmiques autour d'acquisitions T-Lidar de scènes végétales. Applications en synthèse et en foresterie. Communication à l'atelier T-LiDAR pour la communauté francophone. Utilisation du système LiDAR terrestre en écologie forestière. Quatrième édition - 8 Octobre 2013. Université de Marseille
- Jaeger, M., 2012. La modélisation et la simulation de la croissance des plantes. D'un système dynamique à un système complexe. Journées du Réseau National des Systèmes Complexes. Montpellier, France : Journées du Réseau National des Systèmes Complexes, 02/10/2012, Montpellier.
- Marc Jaeger. Landscape visualization: walking through space and time. Towards simulation of landscape dynamics. Communication to RegioResources 21 -A cross-disciplinary dialogue on sustainable development of regional resources- Dresden, May 21st-23rd, 2012, Germany.
- Marc Jaeger, Philippe de Reffye, Frédéric Blaise. 1993. Génération de végétaux en imagerie de synthèse. Forum AGROFORA. Marmande, France : Forum AGROFORA, 25/11/1993, Marmande, France.

Software registration (2 items)

- QIZPP (Qt Image Zbuffer Post Processing). Inter Deposit Digital Number (IDDN) registration at Agence pour la Protection des Programmes (APP) under number no: IDDN.FR.001.260004.000.R.P.2012.000.21000. Owner: CIRAD (member 88.75.673). June 25th, 2012.
- GLOUPS (Generalized Operator for a Universal Plant Simulator). Inter Deposit Digital Number (IDDN) registration at Agence pour la Protection des Programmes (APP) under number no: IDDN.FR.001.210033.000.R.P.2011.000.30010. Owner: CIRAD (member 88.75.673). Logibox : 66948, May 27th, 2011.

Others (various including technical reports). Autres dont rapports techniques (12 items)

- Jaeger, M., de Reffye, P., 2019. Plant growth modelling and simulation – a complex dynamic system. Les Dossiers d'Agropolis International. COMPLEX SYSTEMS. From biology to landscapes. 23, January 2019. p.31
- Jaeger, M., 2018. E-LEARNING ET MODELISATION DES PLANTES. Rapport pour la Direction d'unité. Etude 2016-2018. Septembre 2018. 62 p.
- Jaeger, M., de Reffye, P., 2019. Plant growth modelling and simulation – a complex dynamic system. Les Dossiers d'Agropolis International. COMPLEX SYSTEMS. From biology to landscapes. 23, January 2019. p.31
- Jaeger, M., de Reffye, P., 2018. Modélisation et simulation de la croissance des plantes : un système dynamique et complexe. Les Dossiers d'Agropolis International. Systèmes complexes de la biologie aux territoires. 23, June 2018. p.31
- Jaeger, M., 2018. E-LEARNING ET MODELISATION DES PLANTES. Rapport pour la Direction d'unité. Etude 2016-2018. Septembre 2018. 62 p.
- Deleuze, C., Constant, T., Saint-André, L., Bouvet, A., Morneau, F., Colin, F., Vallet, P., Gauthier, A., Jaeger, M., 2013. Le projet EMERGE pour les tarifs cohérents de volumes et biomasses des essences forestières françaises métropolitaines. Rendez-vous Techniques, (39) : pp. 32-36
- de Reffye P., Jaeger M., Cournède P.H, 2008. Le monde végétal. In: Comité International des Jeux Mathématiques (Ed) Maths Nature Express. Paris, CILM, p. 26-35
- Constant, T., Ancelin, P., Fourcaud, T., Fournier, M., Jaeger, M., 1999. Le projet SICRODEF : Simulation des contraintes de croissance et de leurs conséquences sur la déformation des pièces au sciage (Rapport final 1ère tranche). Champenoux: INRA - DREF, 20 p.
- Dollé V. & al, 1989. "Architecture oasienne et flux radiatifs". Document no 2 ". Montpellier (FRA) : CIRAD-DSA, décembre 1989. - n.p. 75 p.

- Nicolini, E., Guédon, Y., Jaeger, M., de Reffye, P., Escoute, J., Schwendiman, J., 1992. Modélisation et simulation de la croissance de *Agaricus bisporus* (Lange) Imbach. Bibliographie histo-cytologique. (Etude préliminaire) (Rapport Confidentiel). Montpellier, France : CACS & CIRAD - GERDAT Unité de Modélisation des Plantes.
- Lecoustre, R., Costes, E., de Reffye, P., Jaeger, M., 1989. Modélisation de la croissance et de l'architecture du genre *Begonia* (Rapport de Convention). Montpellier, France : Ville de Rochefort & CIRAD - GERDAT Laboratoire de Modélisation di CIRAD-GERDAT, - n.p., 33 p.
- Lecoustre R., Jaeger M., 1989. "Modélisation de l'architecture et de la géométrie d'*Elaeis guineensis* Jacq. Document no1 ". Montpellier (FRA) : CIRAD-GERDAT, 1989. - n.p. Rapport No 222, 150 p.