

## I Publications

- **publications originales dans des revues à comité de lecture et autres articles référencés dans Pubmed,**

dont 1 en révision, 46 référencés dans Pubmed

- J18-1 Amdouni E, **Gibaud B**. Towards a Standard Ontology of Surgical Process Models Imaging Biomarker Ontology (IBO): a biomedical ontology to annotate and share imaging biomarker data. *J of Data Semantics* (en révision).
- J18-2 **Gibaud B**, Forestier G, Feldmann C, Ferrigno G, Gonçalves P, Haidegger T, Julliard C, Katic D, Kenngott H, Maier-Hein L, März K, de Momi E, Nagy DA, Nakawala H, Neumann J, Neumuth T, Rojas Balderrama J, Speidel S, Wagner M and Jannin P. Towards a standard ontology of Surgical Process Models. *Int J Computer Assisted Radiology and Surgery* (accepted) doi: 10.1007/s11548-018-1824-5
- J18-3 Finet P, **Gibaud B**, Dameron O, Le Bouquin Jeannès R. Interoperable infrastructure and implementation of a health data model for remote monitoring of chronic diseases with comorbidities. *IRBM* 39(2018)151–159.
- J16-1 Finet P, **Gibaud B**, Dameron O, Le Bouquin Jeannès R. Relevance of Health Level 7 Clinical Document Architecture and Integrating the Healthcare Enterprise cross-enterprise document sharing profile for managing chronic wounds in a telemedicine context. *Healthcare Technology Letters* (2016), pp. 1–5. doi: 10.1049/htl.2015.0053.
- J16-2 Le Reste PJ, Haegelen C, **Gibaud B**, Moreau T, Morandi X. Connections of the dorsolateral prefrontal cortex with the thalamus: a probabilistic tractography study. *Surg Radiol Anat.* 2016 Aug;38(6):705-10. doi: 10.1007/s00276-015-1603-8.
- J15-1 Moreau T, **Gibaud B**. Ontology-based approach for in vivo human connectomics: the medial Brodmann area 6 case study. *Frontiers in Neuroinformatics*. doi: 10.3389/fninf.2015.00009. eCollection 2015.
- J15-2 Katic D, Julliard C, Wekerle AL, Kenngott H, Müller-Stich BP, Dillmann R, Speidel S, Jannin P, **Gibaud B**. LapOntoSPM - An Ontology for Laparoscopic Surgeries and its Application to Surgical Phase Recognition. *Int J Computer Assisted Radiology and Surgery* 2015 Sep;10(9):1427-34. doi: 10.1007/s11548-015-1222-1.
- J15-3 Batrancourt B, Dojat M, **Gibaud B**, Kassel G. A multilayer ontology of instruments for neurological, behavioural and cognitive assessments. *Neuroinformatics* 13:93-110, 2015.
- J15-4 Finet P, Le Bouquin Jeannès R, Dameron O, **Gibaud B**. Review of current telemedicine applications for chronic diseases. Toward a more integrated system. *Innovation and Research in Biomedical Engineering* (2015), 36(3). DOI:10.1016/j.irbm.2015.01.009
- J14-1 **Gibaud B**, Forestier G, Benoit-Cattin H, Cervenansky F, Clarysse P, Friboulet D, Gaignard A, Hugonnard P, Lartizien C, Liebgott H, Montagnat J, Tabary J, Glatard T. OntoVIP: an ontology for the annotation of object models used for medical image simulation. *Journal of Biomedical Informatics* (2014) 52:279-92.
- J14-2 Gaignard A, Montagnat J, **Gibaud B**, Forestier G, Glatard T. Domain-specific summarisation of Life-Science e-experiments from provenance traces. *Journal of Web Semantics* (2014) 29:19-30.
- J14-3 Magro E, Moreau T, Seizeur R, Zemmoura I, **Gibaud B**, Morandi X. Connectivity within the primary motor cortex: a DTI tractography study. *Surg Radiol Anat.* 2014 Mar;36(2):125-35.
- J13-1 Glatard T, Lartizien C, **Gibaud B**, da Silva RF, Forestier G, Cervenansky F, Alessandrini M, Benoit-Cattin H, Bernard O, Camarasu-Pop S, Cerezo N, Clarysse P, Gaignard A, Hugonnard P, Liebgott H, Marache S, Marion A, Montagnat J, Tabary J, Friboulet D. A virtual imaging platform for multi-modality medical image simulation. *IEEE Trans Med Imaging.* 2013 Jan;32(1):110-8. doi: 10.1109/TMI.2012.2220154.
- J12-1 Magro E, Moreau T, Seizeur R, **Gibaud B**, Morandi X. Characterization of short white matter fiber bundles in the central area from diffusion tensor MRI. *Neuroradiology.* 2012;54(11):1275-85. doi: 10.1007/s00234-012-1073-1.
- J11-1 **Gibaud B**, Kassel G, Dojat M, Batrancourt B, Michel F, Gaignard A, Montagnat J. NeuroLOG : Sharing neuroimaging data using an ontology-based federated approach. Annual Symposium proceedings electronic resource / AMIA Symposium. AMIA Symposium, 2011, pp. 472-80.
- J10-1 **Gibaud B**. Semantic web: key technologies for bridging imaging and translational medicine. *Imaging in*

*Medicine*, December 2010, Vol. 2, No. 6, 609-611.  
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- J10-2 Haegelen C, Garcia-Lorenzo D, Le Jeune F, Peron J, **Gibaud B**, Riffaud L, Brassier G, Barillot C, Verin M, Morandi X. SPECT and PET analysis of subthalamic stimulation in Parkinson's disease: analysis using a manual segmentation. *J Neurol* 2010;257(3):375-82.
- J09-1 Mechouche A, Golbreich C, Morandi X, **Gibaud B**. A hybrid system using symbolic and numeric knowledge for the semantic annotation of sulco-gyral anatomy in brain MRI images. *IEEE Trans Med Imaging* ;28(8):1165-78.
- J08-1 Mechouche A, Golbreich C, Morandi X, **Gibaud B**. Ontology-based annotation of brain MRI images. *AMIA Annu Symp Proc*. 2008 Nov 6:460-4. ([.pdf](#))
- J08-2 Mechouche A, Morandi X, Golbreich C, **Gibaud B**. A hybrid system for the semantic annotation of sulco-gyral anatomy in MRI images. *Med Image Comput Comput Assist Interv*. 2008;11(Pt 1):807-14. ([.pdf](#))
- J08-3 Temal L, Dojat M, Kassel G, **Gibaud B**. Towards an ontology for sharing medical images and regions of interest in neuroimaging. *J Biomed Inform*. 2008 Oct;41(5):766-78. Epub 2008 Mar 17. ([.pdf](#))
- J07-1 Dameron O, Musen MA, **Gibaud B**. Using semantic dependencies for consistency management of an ontology of brain-cortex anatomy. *Artif Intell Med*. 2007 Mar;39(3):217-25. Epub 2007 Jan 24. PMID: 17254759 [[PubMed - indexed for MEDLINE](#)]
- J06-1 Barillot C, Benali H, Dojat M, Gaignard A, **Gibaud B**, Kinkingnéhun S, Matsumoto JP, Pélégrini-Issac M, Simon E, Temal L. Federating distributed and heterogeneous information sources in neuroimaging: the NeuroBase Project. *Stud Health Technol Inform*. 2006;120:3-13. PMID: 16823118 [[PubMed - indexed for MEDLINE](#)]
- J05-1 Haegelen C, Verin M, Broche BA, Prigent F, Jannin P, **Gibaud B**, Morandi X. Does subthalamic nucleus stimulation affect the frontal limbic areas ? A single-photon emission computed tomography study using a manual anatomical segmentation method. *Surg Radiol Anat*. 2005 Dec;27(5):389-94. Epub 2005 Sep 14. PMID: 16160830 [[PubMed - indexed for MEDLINE](#)]
- J05-2 Grova C, Jannin P, Buvat I, Benali H, Bansard JY, Biraben A, **Gibaud B**. From anatomic standardization analysis of perfusion SPECT data to perfusion pattern modeling: evidence of functional networks in healthy subjects and temporal lobe epilepsy patients. *Acad Radiol*. 2005 May;12(5):554-65. PMID: 15866127 [[PubMed - indexed for MEDLINE](#)]
- J05-3 Aubert-Broche B, Jannin P, Biraben A, Bernard AM, Haegelen C, Le Jeune FP, **Gibaud B**. Evaluation of methods to detect interhemispheric asymmetry on cerebral perfusion SPECT: application to epilepsy. *J Nucl Med*. 2005 Apr;46(4):707-13.
- J04-1 Dameron O, **Gibaud B**, Morandi X. Numeric and symbolic knowledge representation of cerebral cortex anatomy: methods and preliminary results. *Surg Radiol Anat*. 2004 Jun;26(3):191-7. Epub 2004 Apr 30. PMID: 15118839 [[PubMed - indexed for MEDLINE](#)]
- J03-1 Jannin P, Raimbault M, Morandi X, Riffaud L, **Gibaud B**. Model of surgical procedures for multimodal image-guided neurosurgery. *Comput Aided Surg*. 2003;8(2):98-106. PMID: 15015723 [[PubMed - indexed for MEDLINE](#)]
- J03-2 Grova C, Jannin P, Biraben A, Buvat I, Benali H, Bernard AM, Scarabin JM, **Gibaud B**. A methodology for generating normal and pathological brain perfusion SPECT images for evaluation of MRI/SPECT fusion methods: application in epilepsy. *Phys Med Biol*. 2003 Dec 21;48(24):4023-43. PMID: 14727749 [[PubMed - indexed for MEDLINE](#)]
- J03-3 **Gibaud B**, Dameron O, Morandi X. Re-use of a multi-purpose knowledge corpus on cortex anatomy for educational purposes. *Stud Health Technol Inform*. 2003;95:439-44. PMID: 14664026 [[PubMed - indexed for MEDLINE](#)]
- J03-4 Dameron O, Burgun A, Morandi X, **Gibaud B**. Modelling dependencies between relations to ensure consistency of a cerebral cortex anatomy knowledge base. *Stud Health Technol Inform*. 2003;95:403-8. PMID: 14664020 [[PubMed - indexed for MEDLINE](#)]
- J03-5 Cordonnier E, Croci S, Laurent JF, **Gibaud B**. Interoperability and medical communication using "patient envelope"-based secure messaging. *Stud Health Technol Inform*. 2003;95:230-5. PMID: 14663992 [[PubMed - indexed for MEDLINE](#)]
- J03-6 Raimbault M, Jannin P, Morandi X, Riffaud L, **Gibaud B**. Models of surgical procedures for multimodal image-guided neurosurgery. *Stud Health Technol Inform*. 2003;95:50-5. PMID: 14663962 [[PubMed - indexed for MEDLINE](#)]
- J03-7 Hellier P, Barillot C, Corouge I, **Gibaud B**, Le Goualher G, Collins DL, Evans A, Malandain G, Ayache N, Christensen GE, Johnson HJ. Retrospective evaluation of intersubject brain registration. *IEEE Trans Med Imaging*. 2003 Sep;22(9):1120-30. PMID: 12956267 [[PubMed - indexed for MEDLINE](#)]
- J03-8 Corouge I, Hellier P, **Gibaud B**, Barillot C. Interindividual functional mapping: a nonlinear local approach. *Neuroimage*. 2003 Aug;19(4):1337-48.

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- J03-9 Aubert-Broche B, Grova C, Jannin P, Buvat I, Benali H, **Gibaud B**. Detection of inter-hemispheric asymmetries of brain perfusion in SPECT. *Phys Med Biol*. 2003 Jun 7;48(11):1505-17.  
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- J03-10 Levrel JJ, Carsin-Nicol B, Louail-Tabourel C, Chabert E, Darnault P, **Gibaud B**, Dameron O, Morandi X. Electronic imaging with photo-realistic rendering for neuroanatomy teaching. Methods and preliminary results *J Neuroradiol*. 2003 Jan;30(1):31-6. French.  
PMID: 12624589 [PubMed - indexed for MEDLINE]
- J02-1 Dameron O, **Gibaud B**, Burgun A, Morandi X. Towards a sharable numeric and symbolic knowledge base on cerebral cortex anatomy: lessons learned from a prototype. *Proc AMIA Symp*. 2002;:185-9.  
PMID: 12463812 [PubMed - indexed for MEDLINE]
- J02-2 Jannin P, Morandi X, Fleig OJ, Le Rumeur E, Toulouse P, **Gibaud B**, Scarabin JM. Integration of sulcal and functional information for multimodal neuronavigation. *J Neurosurg*. 2002 Apr;96(4):713-23.  
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- J00-1 Heautot JF, Eichelberg M, **Gibaud B**, Tréguier C, Lemoine D, Scarabin JM, Piqueras J, Carsin M, Gandon Y. The RETAIN project: DICOM teleradiology over an ATM-based network. Radiological Examinations Transfer on an ATM Integrated Network. *Eur Radiol*. 2000;10(1):175-82.  
PMID: 10663740 [PubMed - indexed for MEDLINE]
- J99-1 Heautot JF, **Gibaud B**, Catroux B, Thoreux PH, Cordonnier E, Scarabin JM, Carsin M, Gandon Y. Influence of the teleradiology technology (N-ISDN and ATM) on the inter-hospital management of neurosurgical patients. *Med Inform Internet Med*. 1999 Apr-Jun;24(2):121-34.  
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- J98-1 **Gibaud B**, Garlatti S, Barillot C, Faure E. Computerized brain atlases as decision support systems: a methodological approach. *Artif Intell Med*. 1998 Sep-Oct;14(1-2):83-100.  
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- J98-2 **Gibaud B**, Garfagni H, Aubry F, Pokropek AT, Chameroy V, Bizais Y, Di Paola R. Standardization in the field of medical image management: the contribution of the MIMOSA model. *IEEE Trans Med Imaging*. 1998 Feb;17(1):62-73.  
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- J97-1 **Gibaud B**, Hervault B. Image management in PACS: how should they be decomposed into well-defined and interoperable industrial products? *Med Inform (Lond)*. 1997 Oct-Dec;22(4):315-24.  
PMID: 9509402 [PubMed - indexed for MEDLINE]
- J94-1 Garfagni H, **Gibaud B**, Stut W, Aubry F, Bizais Y. MIMOSA: a functional model of the management of medical images. *Med Inform (Lond)*. 1994 Apr-Jun;19(2):95-108.  
PMID: 7799695 [PubMed - indexed for MEDLINE]
- J93-1 Barillot C, Lemoine D, Le Briquer L, Lachmann F, **Gibaud B**. Data fusion in medical imaging: merging multimodal and multipatient images, identification of structures and 3D display aspects. *Eur J Radiol*. 1993 Jun;17(1):22-7.  
PMID: 8348908 [PubMed - indexed for MEDLINE]
- J93-2 **Gibaud B**, Morcet N, Gandon Y. Image archiving and communication systems: review of ten years' experiences and perspectives. *Ann Radiol (Paris)*. 1993;36(6-7):412-24. Review. French.  
PMID: 8117040 [PubMed - indexed for MEDLINE]
- J88-1 Barillot C, **Gibaud B**, Lis O, Min LL, Bouliou A, Le Certen G, Collorec R, Coatrieux JL. Computer graphics in medicine: a survey. *Crit Rev Biomed Eng*. 1988;15(4):269-307. Review.  
PMID: 3286114 [PubMed - indexed for MEDLINE]

#### Remarques :

- les publications n° J11-1, J08-1, J08-2, J03-3, J03-4, J03-5, J03-6, J02-1 sont des articles longs publiés dans les proceedings de congrès référencés dans Pubmed.

Les 9 publications suivantes ne sont pas indexées dans Pubmed, mais il s'agit néanmoins d'articles originaux dans des journaux à comité de lecture

- Jni02-1 Charlet J, Cordonnier E, **Gibaud B**. Interopérabilité en médecine : quand le contenu interroge le contenant et l'organisation. *Information - Interaction - Intelligence*, 2(2):37-62, 2002.
- Jni96-1 **Gibaud B**, Hervault B, Cordonnier E, Lussot E, Gandon Y, Meunier C, Klipfel B: Transition d'un prototype PACS vers un système industriel ouvert multi-constructeurs. *Revue Européenne de Technologie Biomédicale*, Vol. 18(5), 1996, p 137-144.
- Jni92-1 Lucas C, Urbano L, Duvauferrier R, **Gibaud B**, Cuvilliers D, Scarabin JM, Ramee A : Evaluation subjective de la compression des images numériques issues d'un vidéodisque. *Revue d'Imagerie Médicale*, n° 4, 1992, pp 53-59.
- Jni91-1 Manens JP, Le Gall G, Fresne F, Barillot C, **Gibaud B**, Lemoine D, Bouliou A, Chenal C, Ben Hassel C,

Scarabin JM. Irradiation multifaisceaux : plan de traitement assisté par ordinateur. *Bull. Cancer Radiother*, 78(3):327-336, 1991.

- Jni87-1 Barillot C, **Gibaud B**, Le Certen G, Bouliou A, Collorec R, Velut S. 3-D Modeling and Computer Graphics: An Approach Directed to Teaching and Therapy Planning. *ITBM- Innovation et Technologie en Biologie et Médecine*, 8(1):121-132, 1987.
- Jni86-1 Renoulin R, Scarabin JM, Coatrieux JL, Launay JC, Babonneau G, **Gibaud B**, Curet D, Le Certen G, Mahieddine B, Islas Perez C, Barillot C, Launay M, Heuze F. The Sirene project (medical archive automation). *Bull. IDATE*, 25:256-70, 1986.
- Jni85-1 Renoulin R, Scarabin JM, **Gibaud B** : Des réseaux informatiques aux réseaux large bande : conditions d'évolution vers des systèmes d'informations multi-services intégrés. *Gestion Hospitalière* n° 248, 1985, pp. 527-535.
- Jni85-2 **Gibaud B**, Barillot C, Scarabin JM. Photogrammétrie et Synthèse d'Images 3D pour la Représentation du Réseau Vasculaire Cérébral. *ITBM- Innovation et Technologie en Biologie et Médecine*, 6(2):159-166, 1985.
- Jni85-3 Barillot C, **Gibaud B**, Scarabin JM, Coatrieux JL. Three Dimensional Reconstruction of Cerebral Blood Vessels. *IEEE Computer Graphics and Applications*, 5(12):13-19, 1985.

- **articles de revue**

6 articles

- R18-1 Maier-Hein L, Eisenmann M, Feldmann C, Feussner H, Forestier G, Giannarou S, **Gibaud B**, Hager G, Hashizume M, Katic D, Kenngott H, Kikinis R, Kranzfelder M, Malpani A, März K, Müller-Stich B, Navab N, Neumuth T, Padoy N, Park A, Pugh C, Schoch N, Stoyanov D, Taylor R, Wagner M, Swaroop VS, Jannin P, Speidel S. Surgical Data Science: A Consensus Perspective. eprint arXiv:1806.03184 (2018).
- R15-1 Smith B, Arabandi S, Brochhausen M, Calhoun M, Ciccarese P, Doyle S, **Gibaud B**, Goldberg I, Kahn CE Jr., Overton J, Tomaszewski J, Gurcan M. Biomedical Imaging Ontologies: A survey and proposal for future work. *Journal of Pathology Informatics* 2015, 6 :37.
- R11-1 **Gibaud B**. The quest for standards in medical imaging. *European Journal of Radiology* 2011, 78(2):190-198.
- R01-1 **Gibaud B**. Les réseaux d'imagerie médicale : réalités et enjeux, in « L'information médicale numérique », Pierre Le Beux et Dominique Boullier (eds), *Les Cahier du Numérique*, 2(2) 75-104, 2001.
- R01-2 Jannin P, Grova C, **Gibaud B**. Fusion de données en imagerie médicale : une revue méthodologique basée sur le contexte clinique. *ITBM-RBM Innovation et Technologie en Biologie et Médecine*, 22(4):196-215, 2001.
- R94-1 **Gibaud B**, Morcet N, Gandon Y. Les systèmes de communication et d'archivage d'images : Bilan et perspectives. *Informatique et santé*, n° 17, 1994, pp 32-39.

- **Contributions à des 'position paper'**

2 articles

- PP18-1 ESR paper on structured reporting in radiology. *Insights Imaging* (2018) 9:1-7. DOI 10.1007/s13244-017-0588-8
- PP15-1 ESR Position paper on imaging biobank. *Insights Imaging* (2015) 6(4):403-10, 2015. DOI 10.1007/s13244-015-0409-x

- **publications à caractère didactique et chapitres de livres.**

20 articles

- O16-1 Chabriaux J and **Gibaud B**. DICOM, le standard pour l'imagerie médicale, Encyclopédie Médico Chirurgicale (EMC) - Radiologie et imagerie médicale - principes et technique – radioprotection. 35-120-A-10, Elsevier Masson SAS, 2016.
- O13-1 Chabriaux J and **Gibaud B**. DICOM, le standard pour l'imagerie médicale, In 'Traitement de l'image - de la numérisation à l'archivage et à la communication' (coordonné par O. Hélénon), Elsevier-Masson, p. 99-150. 2013.
- O13-2 **Gibaud B** and Chabriaux J. Systèmes de communication et d'archivage d'images et leur intégration dans les systèmes de gestion de dossiers patient, In 'Traitement de l'image - de la numérisation à l'archivage et à la communication' (coordonné par O. Hélénon), Elsevier-Masson, p. 151-196. 2013.
- O12-1 Scarabin JM, Mercier Ph, Delion M, Barillot C, Jannin P, **Gibaud B**, Berton E. From Bourgery's anatomy to multiparameter, 3D, digital imaging, individual for each patient. In 'Stereotaxy and epilepsy surgery' Jean-Marie Scarabin (Ed), published by John Libbey Eurotext Editions, 2012, pp. 41-90.
- O12-2 Cordonnier E, Croci S, Hervault B, Lemoine D, Mével G, **Gibaud B**. Communicative neuroimaging. In 'Stereotaxy and epilepsy surgery' Jean-Marie Scarabin (Ed), published

by John Libbey Eurotext Editions, 2012, pp. 158-178.

- O12-3 **Gibaud B** et Chabriaux J. Les systèmes de communication et d'archivage d'images et leur intégration dans les systèmes de gestion de dossiers patient, *Encyclopédie Médico-Chirurgicale (EMC) Radiologie et imagerie médicale - Principes et technique - radioprotection*, Vol 35-125-A-10, Elsevier Masson SAS, 2012.
- O10-1 Chabriaux J and **Gibaud B**. DICOM, le standard pour l'imagerie, *Encyclopédie Médico-Chirurgicale (EMC) Radiologie et imagerie médicale – principe et technique*, Vol 35-120-A-10, Elsevier, 2010.
- O08-1 **Gibaud B**. The DICOM Standard: a brief overview, in "Molecular imaging: Computer reconstruction and practice", Y. LE MOIGNE , A. CANER (editors), Springer, 2008, p. 229–238, ([.pdf](#))
- O08-2 **Gibaud B** and Chabriaux J, The role of standards in the compression of medical images, in « Compression of medical images and signals », Amine Naït-Ali and Christine Cavaro-Ménard (eds), Digital signal and image processing series, John Wiley & Sons, Inc., pp 77-100, 2008.
- O07-1 **Gibaud B** et Chabriaux J, Place des standards dans la compression des images, médicale, in « Compression des images et des signaux médicaux », Amine Naït-Ali et Christine Cavaro-Ménard (eds), Traite IC2, Hermès-Lavoisier, pp 99-123, 2007.
- O05-1 **Gibaud B** and Chabriaux J. Les systèmes de communication et d'archivage d'images et leur intégration dans les systèmes de gestion de dossiers patient, *Encyclopédie Médico-Chirurgicale (EMC) Radiodiagnostic – Principes et techniques d'imagerie*, Vol 35-125-A-10, Elsevier, 2005.
- O04-1 Chabriaux J and **Gibaud B**. DICOM, le standard pour l'imagerie médicale, *Encyclopédie Médico-Chirurgicale- Radiologie 1* :577-603, 2004.
- O02-1 Cordonnier E, **Gibaud B**, Charlet J, Charbonnel P, Rougerie F, Mennerat F, Chevalier F, Demay MJ, Estève A, Hajji L, Paquel N. L'approche enveloppe pour les échanges de dossiers médicaux multimédia : the projet EDI données cliniques, in « Télémédecine et e-santé », R. Beuscart, P. Zweigenbaum, A. Venot et P. Degoulet (eds), Série « Informatique et santé » (13), Springer, pp 3-10, 2002.
- O01-1 Jannin P., Grova C., **Gibaud B**. *Medical applications of NDT data fusion*, pages 227-267. Applications of NDT data fusion. Kluwer Academic Publishers, Gros X.E. edition, 2001.
- O95-1 Barillot C, **Gibaud B**, Gee JC, Lemoine D : Segmentation and Fusion of Multimodality and Multi-Subjects Data for the Preparation of Neurosurgical Procedures. in *Medical Imaging: Analysis of Multimodality 2D/3D Images*, Series : *Studies in Health Technology and Informatics*, Volume 19, Edited by L. Beolchi and M.H. Kuhn, IOS Press, pp 70-82, 1995.
- O94-1 Barillot C, Lemoine D, Le Briquer L, Lachmann F, **Gibaud B**. Data Fusion in Medical Imaging: Merging Multimodal and Multipatient Images, Identification of Structures and 3D Display Aspects. Selected paper in 1994 *IMIA Yearbook of Medical Informatics*, J.H. Van Bommel and A.T. McCray Eds, Schattauer Publ., pp 290-295, 1994.
- O92-1 **Gibaud B**, Scarabin JM, Gandon Y. PACS Evolution between 1980 and 2000, in "*Integrated Diagnostic Imaging: Digital PACS in Medicine 1980-2000*", J.P.J. de Valk Ed., Elsevier Science Publishers, pp 175-200, 1992.
- O91-1 **Gibaud B**, Toumoulin C, Scarabin JM. PACS activities at the University Hospital of Rennes: *NATO ASI series*, Vol. F74 "PACS in medicine", H.K. Huang et al., Ed., Springer Verlag Berlin Heidelberg pp 263-265, 1991.
- O91-2 Bizais Y, Forte AM, **Gibaud B**, Aubry F. Storage and retrieval of medical image data, relationship to image processing and analysis: *NATO ASI series*, Vol. F74 "PACS in medicine", H.K. Huang et al., Ed., Springer Verlag, pp 357-359, 1991.
- O91-3 Bizais Y, Aubry F, **Gibaud B**, Scarabin JM, Di Paola R. A comprehensive model for medical image data bases, in "Integrated System for the Management and Manipulation of Medical Images" J. Demongeot and A. Sousa Pereira (eds), Springer Verlag, pp 73-81, 1991.

- **mémoires d'habilitation et thèse.**

- T00-1 **Gibaud B** : Intéropérabilité syntaxique et sémantique pour l'échange de données et de connaissances en imagerie médicale, Thèse d'Habilitation à diriger des recherches, Université de Rennes I, 2000.
- T83-1 **Gibaud B** : Etude et réalisation d'un système d'analyse d'informations radiologiques tridimensionnelles tomodensitométriques, stéréotaxiques et stéréoscopiques, Thèse de doctorat d'ingénieur, Université de Rennes I, 1983.

- **publications effectuées dans le cadre de congrès internationaux (articles longs)**

100 articles



- C18-1 Amdouni E, **Gibaud B**. Semantic representation of neuroimaging observations: proof of concept Based on the VASARI terminology. 10th International Conference on Knowledge Engineering and Ontology Development (KEOD), 18-20 Sept 2018, Séville (Espagne).
- C16-1 Claude G, Gouranton V, Caillaud B, **Gibaud B**, Arnaldi B, Jannin P. Synthesis and simulation of surgical process models. Medicine Meets Virtual Reality (MMVR 22) Apr 2016, Los Angeles (USA) *Studies in Health Technology and Informatics*, IOS Press, 2016, 220, pp.63-70.  
DOI : [10.3233/978-1-61499-625-5-63](https://doi.org/10.3233/978-1-61499-625-5-63)
- C16-2 Amdouni E, **Gibaud B**. Concept-based versus Realism-based approach to represent neuroimaging observations. 8th International Conference on Knowledge Engineering and Ontology Development (KEOD), 9-11 Nov 2016, Porto (Portugal).
- C15-1 Moreau T, **Gibaud B**. A pipeline for automatic semantic annotation of human connectomics revealed by diffusion tractography. Symposium on Big Data Initiatives for Connectomics Research, London (UK), 30 September 2015.
- C15-2 Amdouni E, Morvan Y, **Gibaud B**. Towards an Imaging Biomarker Ontology Based on the Open Biological and Biomedical Ontologies Foundry (Poster). Proceedings of the 8th Semantic Web Applications and Tools for Life Sciences International Conference (SWAT4LS), Cambridge UK, December 7-10 2015, CEUR Vol. 1546, 193-194.
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67 communications

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- CA14-2 **Gibaud B.** Ontology of imaging datasets as a prerequisite for ontologies of imaging biomarkers. Ontology and Imaging Informatics Workshop, June 23-25, 2014 Amherst, NY, USA. (*Communication invitée*)
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- CA13-2 **Gibaud B.** Dismantling PACS: separating image viewing from the data storage and sharing. Refreshing Course 305 "New PACS architecture: decoupling image management from image navigation", ECR'2013, Vienna. (*Communication invitée*)
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- **publications effectuées dans le cadre de congrès nationaux (articles longs)**

14 articles

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- NA16-2 **Gibaud B.** Intégration du compte rendu structuré dans l'environnement radiologique moderne. Session « comptes rendus structurés en neuro-imagerie ». Journées Francophones de Radiologie. 15 Octobre 2016, Paris. (*Communication invitée*)
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- **Brevets d'invention**

2 brevets

- B15-1 Title: Simulation module for simulating interventional procedure in virtual environment, has reconstruction module reconstructing portion of scenario based on objects of virtual environment, procedural model and action carried out by real user, Patent Number(s): US2017372521-A1, Patent Assignee: INST NAT SCI APPLIQUEES, Inventor(s): Jannin P; **Gibaud B**; Gouranton V; et al.
- B87-1 Title: Image processing system for images of body organ-allows image to be formed at orientations different from image data available, Patent Number(s): FR2622991-A1 , Patent Assignee: THOMSON-RECHERCH, Inventor(s): Collorec R; **Gibaud B**; Barillot C; et al.

