

Randomized Multiresolution Scanning in Focal and Fast E/MEG Sensing of Brain Activity with a Variable Depth

Rezaei, A., Koulouri, A. & Pursiainen, S., 2020, In : Brain Topography. 33, 2, p. 161-175 15 p.

Research output: Contribution to journal > Article > Scientific > peer-review

A mathematical model and iterative inversion for fluorescent optical projection tomography

Koljonen, V., Koskela, O., Montonen, T., Rezaei, A., Belay, B., Figueiras, E., Hyttinen, J. & Pursiainen, S., 18 Feb 2019, In : Physics in Medicine and Biology. 64, 4, 045017.

Research output: Contribution to journal > Article > Scientific > peer-review

Electroencephalographic signals during anesthesia recorded from surface and depth electrodes

Jääntti, V., Ylisen, T., Subramaniam, N. P., Kamata, K., Yli-Hankala, A., Kauppinen, P. & Sonkajarvi, E., 3 Oct 2018, In : International Journal of Radiation Biology. 94, 10, p. 934-943 10 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Wound healing of human embryonic stem cell-derived retinal pigment epithelial cells is affected by maturation stage

Abu Khamidakh, A. E., Rodriguez-Martinez, A., Kaarniranta, K., Kallioniemi, A., Skottman, H., Hyttinen, J. & Juuti-Uusitalo, K., 31 Jul 2018, In : BioMedical Engineering Online. 17, 1, 102.

Research output: Contribution to journal > Article > Scientific > peer-review

Lead field theory provides a powerful tool for designing microelectrode array impedance measurements for biological cell detection and observation

Böttrich, M., Tanskanen, J. M. A. & Hyttinen, J. A. K., 26 Jun 2017, In : BioMedical Engineering Online. 16, 1, 85.

Research output: Contribution to journal > Article > Scientific > peer-review

Functional brain segmentation using inter-subject correlation in fMRI

Kauppi, J-P., Pajula, J., Niemi, J., Hari, R. & Tohka, J., 1 May 2017, In : Human Brain Mapping. 38, 5, p. 2643-2665 23 p.

Research output: Contribution to journal > Article > Scientific > peer-review

A Mixed Finite Element Method to Solve the EEG Forward Problem

Vorwerk, J., Engwer, C., Pursiainen, S. & Wolters, C. H., 1 Apr 2017, In : IEEE Transactions on Medical Imaging. 36, 4, p. 930-941 12 p., 7731161.

Research output: Contribution to journal > Article > Scientific > peer-review

Method for Simulating Dose Reduction in Digital Breast Tomosynthesis

Borges, L. R., Guerrero, I., Bakic, P. R., Foi, A., Maidment, A. D. A. & Vieira, M. A. C., 2017, In : IEEE Transactions on Medical Imaging. 36, 11, p. 2331-2342

Research output: Contribution to journal > Article > Scientific > peer-review

Spinal cord injury induces widespread chronic changes in cerebral white matter

Ilvesmäki, T., Koskinen, E., Brander, A., Luoto, T., Öhman, J. & Eskola, H., 2017, In : Human Brain Mapping. 38, 7, p. 3637-3647

Research output: Contribution to journal > Article > Scientific > peer-review

Simulation of developing human neuronal cell networks

Lenk, K., Priwitzer, B., Ylä-Outinen, L., Tietz, L. H. B., Narkilahti, S. & Hyttinen, J. A. K., 30 Aug 2016, In : BioMedical Engineering Online. 15, 1, 105.

Research output: Contribution to journal > Article > Scientific > peer-review

Simple estimation of induced electric fields in nervous system tissues for human exposure to non-uniform electric fields at power frequency

Tarao, H., Miyamoto, H., Korpinen, L., Hayashi, N. & Isaka, K., 25 May 2016, In : Physics in Medicine and Biology. 61, 12, p. 4438-4451 14 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Application of the ELDO approach to assess cumulative eye lens doses for interventional cardiologists

Farah, J., Struelens, L., Auvinen, A., Jacob, S., Koukorava, C., Schnelzer, M., Vanhavere, F. & Clairand, I., 1 Apr 2015, In : Radiation Protection Dosimetry. 164, 1-2, p. 84-88 5 p., ncu315.

Research output: Contribution to journal › Article › Scientific › peer-review

MR image texture in Parkinson's disease: A longitudinal study

Sikiö, M., Holli-Helenius, K. K., Harrison, L. C. V., Ryymin, P., Ruottinen, H., Saunamäki, T., Eskola, H. J., Elovaara, I. & Dastidar, P., 2015, In : *Acta Radiologica*. 56, 1, p. 97-104 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Diffusion tensor imaging of the cervical spinal cord in healthy adult population: Normative values and measurement reproducibility at 3t mri

Brander, A., Koskinen, E., Luoto, T. M., Hakulinen, U., Helminen, M., Savilahti, S., Ryymin, P., Dastidar, P. & Öhman, J., 2014, In : *Acta Radiologica*. 55, 4, p. 478-485 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Evaluation of overall setup accuracy and adequate setup margins in pelvic image-guided radiotherapy: Comparison of the male and female patients

Laaksomaa, M., Kapanen, M., Tulijoki, T., Peltola, S., Hyödynmaa, S. & Kellokumpu-Lehtinen, P. L., 2014, In : *MEDICAL DOSIMETRY*. 39, 1, p. 74-78 5 p.

Research output: Contribution to journal › Article › Scientific › peer-review

A correlation study of eye lens dose and personal dose equivalent for interventional cardiologists

Farah, J., Struelens, L., Dabin, J., Koukorava, C., Donadille, L., Jacob, S., Schnelzer, M., Auvinen, A., Vanhavere, F. & Clairand, I., Dec 2013, In : *Radiation Protection Dosimetry*. 157, 4, p. 561-569 9 p., nct180.

Research output: Contribution to journal › Article › Scientific › peer-review

Iron overload of hematological origin: validation of a screening procedure for cardiac overload by MRI in routine clinical practice.

Ernst, O., Thuret, I., Petit, P., Ameer, F., Loundou, A. D., de Kerviler, E., Izzillo, R., Willig, A. L., Pascal, L., Verlhac, S., Mordon, S., Fenaux, P. & Rose, C., Jun 2013, In : *Diagnostic and interventional imaging*. 94, 6, p. 601-608 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

CT and MRI imaging at the acute phase of inaugural non-traumatic hepatic haemorrhages

Boulouis, G., Marmin, C., Lemaire, S., Boury, S., Sergent, G., Mordon, S. & Ernst, O., 2013, In : *JOURNAL DE RADIOLOGIE DIAGNOSTIQUE ET INTERVENTIONNELLE*. 94, 3, p. 292-299 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Mathematical modelling of the action potential of human embryonic stem cell derived cardiomyocytes

Paci, M., Sartiani, L., Del Lungo, M., Jaconi, M., Mugelli, A., Cerbai, E. & Severi, S., 28 Aug 2012, In : *BioMedical Engineering Online*. 11, 61.

Research output: Contribution to journal › Article › Scientific › peer-review

Complete electrode model in EEG: Relationship and differences to the point electrode model

Pursiainen, S., Lucka, F. & Wolters, C. H., 21 Feb 2012, In : *Physics in Medicine and Biology*. 57, 4, p. 999-1017 19 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Computed tomography of the parathyroids: The value of density measurements to distinguish between parathyroid adenomas of the lymph nodes and the thyroid parenchyma

Marmin, C., Toledano, M., Lemaire, S., Boury, S., Mordon, S. & Ernst, O., 2012, In : *Diagnostic and interventional imaging*. 93, 7-8, p. 597-603 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

A model to estimate the outcome of prostate cancer photodynamic therapy with TOOKAD soluble WST11

Betrouni, N., Lopes, R., Puech, P., Colin, P. & Mordon, S., 7 Aug 2011, In : *Physics in Medicine and Biology*. 56, 15, p. 4771-4783 13 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Focal Laser Ablation of Prostate Cancer: Numerical Simulation of Temperature and Damage Distribution

Marqa, M. F., Colin, P., Nevoux, P., Mordon, S. R. & Betrouni, N., 2 Jun 2011, In : BioMedical Engineering Online. 10, 45.
Research output: Contribution to journal › Article › Scientific › peer-review

Long-term MRI findings of patients with embolized cerebral aneurysms

Pyysalo, L. M., Keski-Nisula, L. H., Niskakangas, T. T., Kähärä, V. J. & Öhman, J. E., Mar 2011, In : Acta Radiologica. 52, 2, p. 204-210 7 p.
Research output: Contribution to journal › Article › Scientific › peer-review