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 09 April 1987
Italian and Greek Citizenship



Education

- 03/2013 – 03/2017 **Ph.D. in Medical Visualization.** *Topic: Visual Analytics for Digital Radiotherapy: Towards a Comprehensible Pipeline.* Eindhoven University of Technology (TU/e), The Netherlands. Advisors: Dr. Anna Vilanova, Prof. dr. ir. Marcel Breeuwer.
- 01/2012 – 10/2012 **MSc Thesis.** *Topic: Visualization for the Planning and Guidance of Minimally Invasive Cement Injection in Orthopedics.* Delft University of Technology (TU Delft), The Netherlands. Advisor: Dr. Charl P. Botha.
- 09/2010 – 10/2012 **MSc Biomedical Engineering, Medical Imaging Track.** Delft University of Technology (TU Delft), The Netherlands.
- 10/2009 – 06/2010 **Diploma Thesis.** *Topic: Development of Software Tools and Techniques of Digital Processing and Image Analysis in Orthopedic Diseases.* National Technical University of Athens (NTUA), Greece. Advisor: Prof. Dr. Konstantina Nikita, M.D.
- 09/2005 – 06/2010 **Diploma in Electrical and Computer Engineering (BSc & MSc), Major in Telecommunications, Networks and Bioengineering.** National Technical University of Athens (NTUA), Greece.

Professional Profile

Professional Experience

- 09/2020 – Currently **Assistant Professor** (Tenure Track). Bernoulli Institute for Mathematics, Computer Science and Artificial Intelligence, Department of Computing Science, University of Groningen, the Netherlands.
- 02/2017 – 09/2020 **Univ. Assistant (Post-Doc) in Medical Visualization.** Research Division of Computer Graphics. Institute of Visual Computing & Human-Centered Technology, Faculty of Informatics, TU Wien, Austria.
- 03/2013 – 03/2017 **Ph.D. Candidate in Medical Visualization.** Medical Image Analysis (IMAG/e) Group, Department of Biomedical Engineering, Eindhoven University of Technology (TU/e), Netherlands.
- 10/2012 – 03/2013 **Data Scientist.** Orthopedics Department, Leiden University Medical Center (LUMC), Netherlands.
- 09/2011 – 12/2011 **Intern in Medical Image Processing.** Orthopedics Department, Leiden University Medical Center (LUMC), Netherlands.

10/2009 – 06/2010 **Software developer.** Aglaia Kyriakou Child Orthopedic Hospital, Athens, Greece.

Guest Research Stays

- 09/2013 – 01/2017 **Visiting Researcher at TU Delft.** Computer Graphics and Visualization Group (CGV), Department of Intelligent Systems (INSY), Delft University of Technology, Netherlands.
- 04/2016 – 07/2016 **Visiting Researcher at TU Wien.** Research Division of Computer Graphics. Institute of Visual Computing & Human-Centered Technology, Faculty of Informatics, TU Wien, Austria.
- 03/2016 **Visiting Researcher at Aarhus University Hospital.** Department of Clinical Medicine, Department of Medical Physics, Aarhus University Hospital (AUH), Aarhus, Denmark.

Other Professional Activities

- **General Co-Chair for Dirk Bartz Award** (2021-2023)
- **Organizer of NII Shonan Meeting** on "Formalizing Biological and Medical Visualization" (n.167) with Barbora Kozlikova, Johanna Beyer, Timo Ropinski, Issei Fujishiro, to be held in February 2020.
- **Guest Editor at Computers and Graphics** (Special Section on Visual Computing in Biology and Medicine)
- **General Co-Chair at EG VCBM Workshop 2019**, located in Brno (Czech Republic).
- **Poster Co-Chair at EG EuroVis 2018** (Brno, Czech Republic) **and EG EuroVis 2019** (Porto, Portugal).
- **Member of the Organization Committee of EG EuroVis 2018**, located in Brno (Czech Republic).
- **Member** of the Steering Committee of GI-Fachgruppe "Visual Computing in Biologie und Medizin" (VCBM).
- **Lecturer at the SERC2017 Summer School in Visualization**, Sweden.
- **Administration, Planning and Management** of FP7 EU-STREP project "DR THERAPAT - Digital Radiation Therapy Patient", on behalf of TU/e partners.
- **Conference & Journal Reviewing** for IEEE TVCG, EG CGF, MICCAI, IEEE VIS, EG EuroVis, EG VGBM, VRST and served as a reviewer and IPC member for visualization conferences.

Awards

- 2019 EG VCBM 2019 - **Image Contest Award**
- 2018 EuroVis Awards Programme - **Best PhD Award 2018**
- 2018 **Best Short Paper - Honorable Mention** at EG EuroVis2018
- 2017 **Dirk Bartz Prize** for Visual Computing in Medicine (1st Place) at Eurographics 2017
- 2017 **Nomination** for IEEE VGTC VPG doctoral dissertation award 2017

Teaching Experience

Teaching

- 02/2017 – 09/2020 **BSc/MSc Courses, at TU Wien.** Lecturer VU SS 186.105 Visualisierung medizinischer Daten 1, VU WS 186.138 Visualisierung medizinischer Daten 2, VU WS 186.191 Echtzeit-Visualisierung, VU SS 186.822 Einführung in Visual Computing, VU WS 186.827 Visualisierung 1, VU SS 186.833 Visualisierung 2. Supervisor SE WS 186.046 Seminar aus Visualisierung, PR 186.834 Praktikum aus Visual Computing, PR 186.829 Bachelorarbeit für Informatik und Wirtschaftsinformatik.
- 08/2017 **Lecturer in Medical Visualization.** Summer School in Visualization, hosted by Linköping University and the Norrköping Visualization Center, in Sweden.

2013 – 2016

MSc Courses, at Delft University of Technology. Teaching Assistant, IN4307 : Medical Visualization and IN4086 : Data Visualization

Student Supervision

02/2017 – Currently 14 MSc theses (currently 6) and 12 BSc theses (currently 3), at **TU Wien, Austria.**

2013 – 2016 3 MSc theses at **Eindhoven University of Technology** and 1 at **Delft University of Technology.**

Publications List

- Furmanova, K., Grossmann, N., Muren, L.P., Casares-Magaz, O., Moiseenko, V., Einck, J.P., Gröller, M.E., and *Raidou, R.G.*, 2020. **VAPOR: Visual Analytics for the Exploration of Pelvic Organ Variability in Radiotherapy.** Computers and Graphics (Special Section on Visual Computing in Biology and Medicine), vol. 91: 25-38; <https://doi.org/10.1016/j.cag.2020.07.001>
- *Raidou R.G.*, Furmanová, K., Grossmann, N., Casares-Magaz, O., Moiseenko, V., Einck, J.P., Gröller, M.E., and Muren, L.P., 2020. **Lessons Learnt from Developing Visual Analytics Applications for Adaptive Prostate Cancer Radiotherapy.** In Proceedings of The Gap between Visualization Research and Visualization Software (VisGap): 1-8, 2020. <https://doi.org/10.2312/visgap.20201110>
- Orémuš, Z., Hassan, K.A., Chmelík, J., Kňázková, M., Byška, J., *Raidou, R.G.*, and Kozlíková, B., 2020. **PINGU Principles of Interactive Navigation for Geospatial Understanding.** In Proceedings of 2020 IEEE Pacific Visualization Symposium (PacificVis) (pp. 216-225), 2020. <https://doi.org/10.1109/PacificVis48177.2020.7567>
- *Raidou R.G.*, Kozlikova, B., Beyer, J., Ropinski, T., and Fujishiro, I., 2020. **NII Shonan Meeting Report No. 167: Formalizing Biological and Medical Visualization.** ISSN 2186-7437
- Schlachter, M., Preim, B., Bühler, K., and *Raidou, R.G.*, 2020. **Principles of Visualization in Radiation Oncology.** Oncology and Informatics: 1-11, 2020. <https://doi.org/10.1159/000504940>
- Amirkhanov, A., Kosiuk, I., Szmolyan, P., Amirkhanov, A., Mistelbauer, G., Groller, M.E., and *Raidou, R.G.*, 2019. **ManyLands: A Journey Across 4D Phase Space of Trajectories.** Computer Graphics Forum, 38(7):191-202, 2019. <https://doi.org/10.1111/cgf.13828>
- Grossmann, N., Casares-Magaz, O., Muren, L.P., Moiseenko, V., Einck, J.P., Gröller, M.E., and *Raidou R.G.*, 2019. **Pelvis Runner: A Visual Analytics Tool for Pelvic Organ Variability Exploration in Prostate Cancer Cohorts.** In 2019 IEEE Conference on Visual Analytics Science and Technology (VAST).
- Mörth, E., *Raidou, R.G.*, Viola, I., and Smit, N.N., 2019. **The Vitruvian Baby: Interactive Reformation of Fetal Ultrasound Data to a T-Position.** Eurographics Workshop on Visual Computing for Biology and Medicine (VCBM2019). pp.201-205. <https://doi.org/10.2312/vcbm.20191245>
- Bernold, G., Matkovic, K., Gröller, M.E., and *Raidou, R.G.*, 2019. **preha: Establishing Precision Rehabilitation with Visual Analytics.** Eurographics Workshop on Visual Computing for Biology and Medicine (VCBM2019). pp.79-89. <https://doi.org/10.2312/vcbm.20191234>
- Grossmann, N., Casares-Magaz, O., Muren, L.P., Moiseenko, V., Einck, J.P., Gröller, M.E., and *Raidou R.G.*, 2019. **Pelvis Runner: Visualizing Pelvic Organ Variability in a Cohort of Radiotherapy Patients.** Eurographics Workshop on Visual Computing for Biology and Medicine (VCBM2019). pp.69-78. <https://doi.org/10.2312/vcbm.20191233>

- Schlachter, M., *Raidou, R.G.*, Muren, L.P., Preim, B., and Bühler, K. 2019. **State-of-the-Art Report: Visual Computing in Radiation Therapy Planning**. Computer Graphics Forum, 38(3):753-779, 2019. <https://doi.org/10.1111/cgf.13726>
- *Raidou, R.G.*, Gröller, M.E., and Eisemann, M., 2019. **Relaxing Dense Scatter Plots with Pixel-Based Mappings**. IEEE Transactions on Visualization and Computer Graphics, 25(6), pp.2205-2216. <https://doi.org/10.1109/TVCG.2019.2903956>
- Magaz, O.C., *Raidou, R.G.*, Pettersson, N.J., Moiseenko, V., Einck, J., Hopper, A., Knopp, R., and Muren, L.P., 2019. **PO-0962 Bladder changes during first week of RT for prostate cancer determine the risk of urinary toxicity**. Radiotherapy and Oncology, 133, pp.S522-S523. [https://doi.org/10.1016/S0167-8140\(19\)31382-9](https://doi.org/10.1016/S0167-8140(19)31382-9)
- *Raidou, R.G.*, 2019. **Visual Analytics for the Representation, Exploration and Analysis of High-Dimensional, Multi-Faceted Medical Data**. Chapter in Biomedical Visualisation, Volume 2, Chapter 10, Paul Rea (ed.), Springer, 2019. https://doi.org/10.1007/978-3-030-14227-8_10
- Grossmann, N., Köppel, T., Gröller, M.E., and *Raidou, R.G.*, 2018. **VisualFlutter - Visual Analysis of Distortions in the Projection of Biomedical Structures**. Eurographics Workshop on Visual Computing for Biology and Medicine (VCBM2018), pp.167-177. <https://doi.org/10.2312/vcbm.20181242>
- Karall, N., Gröller, M.E., and *Raidou, R.G.*, 2018. **ChemoExplorer: A Dashboard for the Visual Analysis of Chemotherapy Response in Breast Cancer Patients**. EuroVis 2018 - Short Papers, EG Digital Library. <http://dx.doi.org/10.2312/eurovisshort.20181077>
- *Raidou, R.G.*, Casares-Magaz, O., Amirkhanov, A., Moiseenko, V., Muren, L.P., Einck, J.P., Vilanova, A., and Gröller, M.E., 2018. **Bladder Runner: Visual Analytics for the Exploration of RT-Induced Bladder Toxicity in a Cohort Study**. Computer Graphics Forum, 37(3):205-216, 2018. <https://doi.org/10.1111/cgf.13413>
- Reiter, O., Breeuwer, M., Gröller, M.E., and *Raidou, R.G.*, 2018. **Comparative Visual Analysis of Pelvic Organ Segmentations**. EuroVis 2018 - Short Papers (Honorable Mention), EG Digital Library. <http://dx.doi.org/10.2312/eurovisshort.20181075>
- *Raidou, R.G.*, 2018. **Uncertainty Visualization: Recent Developments and Future Challenges in Prostate Cancer Radiotherapy Planning**. EuroVis Workshop on Reproducibility, Verification, and Validation in Visualization (EuroRV3 2018). <http://dx.doi.org/10.2312/eurov3.20181143>
- Casares-Magaz, O., *Raidou, R.G.*, Rørvik, J., Vilanova, A., and Muren, L.P., 2018. **Uncertainty Evaluation of Image-Based Tumour Control Probability Models in Radiotherapy of Prostate Cancer Using a Visual Analytics Tool**. Journal of Physics and Imaging in Radiation Oncology (phiRO), 5 (2018): 5-8. <https://doi.org/10.1016/j.phro.2017.12.003>
- *Raidou, R.G.*, Breeuwer, M., and Vilanova, A., 2017. **Visual Analytics for Digital Radiotherapy: Towards a Comprehensible Pipeline**. EuroGraphics 2017 - Dirk Bartz Prize. <http://dx.doi.org/10.2312/egm.20171042>
- *Raidou, R.G.*, 2017. **Visual Analytics for Digital Radiotherapy: Towards a Comprehensible Pipeline**. PhD Dissertation Book, Eindhoven University of Technology. ISBN 978-90-386-4230-7.
- *Raidou, R.G.*, Kuijff, H.J., Sepasian, N., Pezzotti, N., Bouvy, W.H., Breeuwer, M., and Vilanova, A., 2016. **Employing Visual Analytics to Aid the Design of White Matter Hyperintensity Classifiers**. In International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI), pp. 97-105. Springer, Cham, 2016. https://doi.org/10.1007/978-3-319-46723-8_12
- *Raidou, R.G.*, Marcelis, F.J.J., Breeuwer, M., Groeller, M.E., Vilanova, A., and van de Wetering, H.M.M., 2016. **Visual Analytics for the Exploration and Assessment of Segmentation Errors**. Eurographics Workshop on Visual Computing for Biology and Medicine (VCBM 2016), pp.193-202. <http://dx.doi.org/10.2312/vcbm.20161287>
- Malan, D.F., van der Walt, S.J., *Raidou, R.G.*, van den Berg, B., Stoel, B.C., Botha, C.P., Nelissen, R.G. and Valstar, E.R., 2016. **A Fluoroscopy-Based Planning and Guidance Software Tool for Minimally Invasive Hip**

Refixation by Cement Injection. International journal of computer assisted radiology and surgery, 11(2), pp.281-296. <https://doi.org/10.1007/s11548-015-1252-8>

- *Raidou, R.G., Casares-Magaz, O., Muren, L.P., van der Heide, U.A., Rørvik, J., Breeuwer, M. and Vilanova, A., 2016. **Visual Analysis of Tumor Control Models for Prediction of Radiotherapy Response.** Computer Graphics Forum, 35(3):231-240, 2016. <http://dx.doi.org/10.1111/cgf.12899>*
- *Raidou, R.G., Eisemann, M., Breeuwer, M., Eisemann, E. and Vilanova, A., 2016. **Orientation-Enhanced Parallel Coordinate Plots.** IEEE Transactions on Visualization and Computer Graphics, 22(1), pp.589-598. <https://doi.org/10.1109/TVCG.2015.2467872>*
- *Raidou, R.G., Van Der Heide, U.A., Dinh, C.V., Ghobadi, G., Kallehauge, J.F., Breeuwer, M. and Vilanova, A., 2015. **Visual Analytics for the Exploration of Tumor Tissue Characterization.** Computer Graphics Forum, 34(3):11-20, 2015. <https://doi.org/10.1111/cgf.12613>*
- *Raidou, R.G., Moreira, M.P., van Elmp, W., Breeuwer, M. and Vilanova, A., 2014. **Visual Analytics for the Exploration of Multiparametric Cancer Imaging.** In 2014 IEEE Conference on Visual Analytics Science and Technology (VAST). <https://doi.org/10.1109/VAST.2014.7042521>*
- *Raidou, R.G., Breeuwer, M., Vilanova, A., van der Heide, U.A. and van Houdt, P.J., 2014. **The iCoCooN: Integration of Cobweb Charts with Parallel Coordinates for Visual Analysis of DCE-MRI Modeling Variations.** Eurographics Workshop on Visual Computing for Biology and Medicine (VCBM 2014), pp. 11-20. <http://dx.doi.org/10.2312/vcbm.20141178>*