

Journal Articles

Baumgartner C., Spath-Blass V., Niederkofler V., Bergmoser K., Langthaler S., Lassnig A., **Rienmüller T.**, Baumgartner D., Asnani A., Gerszten R. E. A novel network-based approach for discovering dynamic metabolic biomarkers in cardiovascular disease. *PloS ONE* 13(12) 2018. doi: <https://doi.org/10.1371/journal.pone.0208953>. Impact factor 3.54.

Winter, R., Haug, I., Lebo, P., Grohmann, M., Parvizi, D., Cambiaso-Daniel, J., Tuca, A., **Rienmüller, T.**, Spindel, S., Kamolz, L.-P. Standardizing the complication rate after breast reduction using the modified Clavien-Dindo-Classification. *Surgery* 2017;161(5):1430-5. doi: 10.1016/j.surg.2016.11.028. Impact factor 3.801.

Rienmüller, T., Hofbaur, M., Travé-Massuyés, L., Bayouhd, M. Mode set focused hybrid estimation. *Int J Appl Math Comput Sci (AMCS)* 2013;23(1):131-44. Impact factor 1.712.

Editorials

Brandstötter, M., **Rienmüller, T.** (Eds., equally contributed) *Insight 2014*, In: *UMIT-Lecture Notes in Biomedical Computer Science and Mechatronics, Volume 3, 2014*, ISBN: 978-3-9503191-2-5.

Peer-reviewed Conferences (incl. Abstracts and Electronic Posters EPOS™)

Rychina, I., **Rienmüller, T.**, Makarenko, V., Bereznitskiy, V., Tikhonov, A., Oreshkova, J.A., Frank, P., Bockeria, L., Rienmüller, R. Investigation of a roll pump contrast media injector for individually adapted Iodine concentrations. *European Congress of Radiology (ECR) 2018, Vienna, Austria (Abstract)*.

Rienmüller, T., Makarenko, V.N., Bockeria, O.L., Rychina, I.E., Bereznitsky, V., Baumgartner, C., Bockeria, L.A., Ourednicek, P., Rienmüller, R. A multiple regression analysis of determinants of myocardial perfusion as measured by CT. *European Congress of Radiology (ECR) 2017, Vienna, Austria (Abstract)*.

Rienmüller, T.M., Baumgartner, C., Makarenko, V., Bereznitskiy, V., Rychina, I., Ourednicek, P., Rienmüller, R. Quantitative myocardial perfusion measured before and after invasive treatment using advanced CT-technology. *Annual Meeting of the European Society of Cardiac Radiology (ESCR) 2016, Krakow, Poland (EPOS electronic poster Award)*.

Baumgartner, C., Kienast, R., Handler, M., Hanser, F., Schröttner, J., **Rienmüller, T. M.** Modeling and experimental validation of hypothermal-induced mechanisms in cardiac tissue. *Biomedical Engineering / Biomedizinische Technik* 2016; 61:s209. *BMT 2016: D-A-CH Dreiländertagung, Basel, Switzerland*. <https://doi.org/10.1515/bmt-2016-5018>. (Abstract).

Lassnig, A., **Rienmüller, T.**, Baumgartner, C., Schröttner, J. Development of a hybrid model to evaluate integrated care in heart failure treatment. *Biomedical Engineering / Biomedizinische Technik* 2016; 61:s108. *BMT 2016: D-A-CH Dreiländertagung, Basel, Switzerland*. <https://doi.org/10.1515/bmt-2016-5009>. (Abstract).

Hinteregger, L., Lassnig, A., **Rienmüller, T.**, Baumgartner, C., Schröttner, J. Development of a simulation model to assess time in stroke treatment. *Biomedical Engineering /*

Biomedizinische Technik 2016; 61:s230. BMT 2016: D-A-CH Dreiländertagung, Basel, Switzerland. <https://doi.org/10.1515/bmt-2016-5018>. (Abstract).

Winter, R., Haug, I., Lebo, P., Grohmann, M., Parvici, D., Cambioso, J., Tuca, A., **Rienmüller, T.**, Spendel, S., Kamolz, L.-P. Der Einsatz der modifizierten Clavien-Dindo-Klassifikation im Rahmen der Mammarekonstruktionsplastik. 46. Jahrestagung der Deutsche Gesellschaft der Plastischen, Rekonstruktiven und Ästhetischen Chirurgen (DGPRÄC)/20. Jahrestagung der Vereinigung der Deutschen Ästhetisch-Plastischen Chirurgen (VDÄPC) 2015, Berlin, Germany. (Abstract).

Rienmüller, T., Handler, M., Toifl, M., Rienmüller, R., Baumgartner, C. Myocardial blood flow quantification from dynamic CT scans. Annual Meeting of the Austrian Society for Biomedical Engineering (ÖGBMT), Hall, Austria, 2014, In: UMIT – Lecture Notes in Biomedical Computer Science and Mechatronics (Eds Baumgartner C., Mayr, W.), Volume 4, pp. 15-16.

Rienmüller, T., Baumgartner, C., Handler, M., Makarenko, V., Krestinich, I.M., Zhorzholiani, S.T., Bockeria, L., Ourednicek, P., Rienmüller, R. Quantitative estimation of left ventricular myocardial perfusion based on dynamic CT scans. D-A-CH Dreiländertagung BMT 2013, Graz, Austria, Proceedings pp. 651-2.

Rienmüller, T., Rienmüller, A., Baumgartner, C. Bewegungsachsen des Kniegelenks in Hinblick auf die Knieendoprothetik – Ein Überblick. Annual Meeting of the Austrian Society for Biomedical Engineering (ÖGBMT), Hall, Austria, 2012, In: UMIT – Lecture Notes in Biomedical Computer Science and Mechatronics (Eds. Baumgartner C., Mayr, W.), Volume 2: pp. 41-42

Rienmüller, T., Baumgartner, C., Makarenko, V., Bockeria, L., Ourednicek, P., Rienmüller, R. Effect of different reconstruction algorithms on quantitative evaluation of dynamic CT data for the estimation of myocardial blood flow. Cardiac Imaging 2014, Annual Meeting of the European Society of Cardiac Radiology (ESCR) 2014, Paris, France (EPOS electronic poster Award).

Rienmüller, T., Handler, M., Ourednicek, P., Makarenko, V., Bockeria, L., Krestinich, I.M., Zhorzholiani, S.T., Rienmüller, R., Baumgartner, C. Contrast agent concentration of 180-210 mgJ/ml allows for quantitative estimation of myocardial perfusion in dogs. European Congress of Radiology (ECR) 2013, Vienna, Austria (EPOS electronic poster).

Makarenko, V., **Rienmüller, T.**, Handler, M., Krestinich, I.M., Zhorzholiani, S.T., Bockeria, L., Ourednicek, P., Baumgartner, C., Rienmüller, R. Feasibility of rotational 256 row CT in measuring myocardial perfusion in anaesthetized dogs. European Congress of Radiology (ECR) 2013, Vienna, Austria (EPOS electronic poster).

Bockeria, L., Makarenko, V., **Rienmüller, T.**, Handler, M., Ourednicek, P., Zhorzholiani, S.T., Krestinich, I.M., Baumgartner, C., Rienmüller, R. Multivariate analysis on cardiac determinants for estimating myocardial perfusion in an animal model using dynamic CT data. Proc. ESCR Cardiac Imaging 2013, London, United Kingdom. (Abstract and EPOS electronic poster).

Handler, M., **Rienmüller, T.**, Ourednicek, P., Makarenko, V., Bockeria, L., Zhorzholiani, S., Krestinich, I., Rienmüller, R., Baumgartner, C. Assessment of HU-value stability in dynamic CT-scans for quantitative estimation of myocardial perfusion. European Congress of Radiology (ECR) 2012, Vienna, Austria, Eur Radiol, Insights Imaging 4; Suppl 1. (Abstract).

Rienmüller, T., Gruber, C., Brandstötter, M., Hofbaur, M. Odometry-based fault diagnosis for pseudo-omnidirectional wheeled mobile robots. 22nd Workshop on Principles of Diagnosis 2011, Murnau, Germany.

Hofbaur, M., Travé-Massuyés, L., **Rienmüller, T.**, Bayouhd, M. Overcoming non-discernibility through mode-sequence analytic redundancy relations in hybrid diagnosis and estimation. 21st International Workshop on Principles of Diagnosis (DX) 2010, Portland, Oregon, USA.

Rienmüller, T., Bayouhd, M., Hofbaur, M.W., Travé-Massuyés, L. Hybrid estimation through synergic mode-set focusing. IFAC SAFEPROCESS Symposium 2009, Barcelona, Spain.

Rienmüller, T., Bayouhd, M., Hofbaur, M., Travé-Massuyés, L. Hybrid estimation through synergetic mode-set filtering. 20th International Workshop on Principles of Diagnosis (DX), 2009, Stockholm, Sweden.

Hofbaur, M.W., **Rienmüller, T.** Qualitative abstraction of piecewise affine systems. Workshop on qualitative reasoning 2008, Boulder, Colorado, USA.

Rienmüller, R., Teubl, J., **Rienmüller, T.**, Kovaleva, K., Reiter, G.M., Machler, H., Zink, M., Klein, W. Imagine: Your heart – one stop shop – in digital cardio-radiology. European Radiology Supplement 2005;15(1):571.