

**Acceleration data acquisition and processing system for structural health monitoring**

Herranen, Henrik; Kuusik, Alar; Saar, Tõnis; Reidla, Marko; Land, Raul; Märten, Olev; Majak, Jüri 2014 IEEE International Workshop On Metrology For Aerospace : May 29-30, 2014, Benevento, Italy : proceedings 2014 / p. 244-248 : ill

**Adaptively under sampled, circular histogram based image processing for rotation invariant coin detection**

Mölder, Ago; Märten, Olev; Saar, Tõnis BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 137-140 : ill

**Adaptively undersampled image processing for fast multiline laser detection**

Mölder, Ago; Märten, Olev; Saar, Tõnis; Land, Raul 2013 IEEE 8th International Symposium on Intelligent Signal Processing (WISP 2013) : proceedings 2013 / p. 60-64 : ill [CD-ROM]

**Automatic asphalt pavement crack detection and classification using neural networks**

Saar, Tõnis; Talvik, Ott BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 345-348 : ill

**Automatic detection of multisize pulmonary nodules in CT images : large-scale validation of the false-positive reduction step**

Gupta, Anindya; Saar, Tõnis; Märten, Olev; Le Moullec, Yannick Medical physics 2018 / p. 1135-1149 : ill  
<https://doi.org/10.1002/mp.12746> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Chirp-based impedance spectroscopy pf piezo-sensors**

Saar, Tõnis; Märten, Olev; Reidla, Marko; Ronk, Ants BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 339-342 : ill

**Chirp-based piezo-impedance measurement**

Saar, Tõnis; Reidla, Marko; Märten, Olev; Land, Raul; Min, Mart; Herranen, Henrik Proceedings : WISP'2013, 8th IEEE International Symposium on Intelligent Signal Processing 2013 / [4] p. : ill <https://ieeexplore.ieee.org/document/6657487>

**Detection of pulmonary micronodules in computed tomography images and false positive reduction using 3D convolutional neural networks**

Gupta, Anindya; Saar, Tõnis; Märten, Olev; Le Moullec, Yannick; Sintorn, Ida-Maria International Journal of Imaging Systems and Technology 2019 / p. 327-339 : ill <https://doi.org/10.1002/ima.22373> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A DSP-based laser scanner**

Saar, Tõnis; Märten, Olev BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 345-348 : ill

**Durability performance of semiconductor strain gauges in GFRP laminate**

Herranen, Henrik; Saar, Tõnis; Gordon, Rauno; Pohlak, Meelis; Lend, Henri Proceedings of the 6th ECCOMAS Thematic Conference on Smart Structures and Materials, SMART 2013 : Turin, Italy, June 24-26, 2013 2013 / p. 1-14 : ill

**Experimental modal analysis of maritime composite panel**

Gavrijaševa, Alina; Märten, Olev; Land, Raul; Saar, Tõnis; Herranen, Henrik; Majak, Jüri; Reidla, Marko; Kuusik, Alar BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 143-146 : ill [http://www.ester.ee/record=b2150914\\*est](http://www.ester.ee/record=b2150914*est)

**Extraction of the variable width laser line**

Mölder, Ago; Märten, Olev; Saar, Tõnis; Land, Raul BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 157-160 : ill

**Fast impedance spectroscopy of piezosensors for structural health monitoring**

Märten, Olev; Saar, Tõnis; Min, Mart; Land, Raul; Reidla, Marko Elektronika ir elektrotehnika = Electronics and electrical engineering 2010 / 7, p. 31-34 : ill

**Fatigue performance of semiconductor strain gauges in GFRP laminate**

Herranen, Henrik; Saar, Tõnis; Gordon, Rauno; Pohlak, Meelis; Lend, Henri Advances in applied materials and electronics engineering III 2014 / p. 244-248 <https://doi.org/10.4028/www.scientific.net/AMR.905.244> [Article at Scopus](#)

**Laser line detection with sub-pixel accuracy**

Mölder, Ago; Märten, Olev; Saar, Tõnis; Land, Raul Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 132-135 : ill <https://doi.org/10.5755/j01.eee.20.5.7114> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Laser scanner calibration dependency on the line detection method**

**Mölder, Ago; Märten, Olev; Saar, Tõnis; Land, Raul** Elektronika ir elektrotehnika = Electronics and electrical engineering 2015 / p. 66-69 : ill <https://doi.org/10.5755/j01.eee.21.6.13765> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Materiaalse põhivara allahindlustest**

**Lõökene, Inga; Saar, Tõnis** Majandusarvestus & finantsjuhtimine : aktuaalseid probleeme Eesti Vabariigis 2001 / lk. 31-42

### **Methods for increased sensitivity and scope in automatic segmentation and detection of lung nodules in CT images**

**Gupta, Anindya; Märten, Olev; Le Moullec, Yannick; Saar, Tõnis** The 15th IEEE International Symposium on Signal Processing and Information Technology ISSPIT 2015 : December 7-10, 2015, Abu Dhabi, UAE : proceedings 2015 / p. 370-375 : ill

### **Robust piezo impedance magnitude measurement method**

**Saar, Tõnis** Elektronika ir elektrotehnika = Electronics and electrical engineering 2011 / p. 107-110 : ill [https://www.researchgate.net/publication/266444572\\_Robust\\_Piezo\\_Impedance\\_Magnitude\\_Measurement\\_Method](https://www.researchgate.net/publication/266444572_Robust_Piezo_Impedance_Magnitude_Measurement_Method)

### **Simple DSP interface for impedance spectroscopy of piezo-sensors**

**Märten, Olev; Reidla, Marko; Saar, Tõnis** BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 343-344 : ill

### **Study of various excitation and reference signals for pulsed correlation-based ultrasound signal processing**

**Märten, Olev; Saar, Tõnis; Reidla, Marko** Elektronika ir elektrotehnika = Electronics and electrical engineering 2010 / 9, lk. 89-92 : ill [https://www.researchgate.net/publication/268043244\\_Study\\_of\\_Various\\_Excitation\\_and\\_Reference\\_Signals\\_for\\_Pulsed\\_Correlation-based\\_Ultrasound\\_Signal\\_Processing](https://www.researchgate.net/publication/268043244_Study_of_Various_Excitation_and_Reference_Signals_for_Pulsed_Correlation-based_Ultrasound_Signal_Processing)

### **The piezo-electric impedance spectroscopy : solutions and applications = Piesoelektriline impedants-spektroskoopia : lahendused ja rakendused**

**Saar, Tõnis** 2013 [https://www.ester.ee/record=b2967240\\*est](https://www.ester.ee/record=b2967240*est)

### **Three-dimensional cell counting based on two dimensional cross-section images**

**Anton, Johan; Saar, Tõnis** Elektronika ir elektrotehnika = Electronics and electrical engineering 2011 / p. 89-94 <https://eejournal.ktu.lt/index.php/elt/article/view/455>

### **TMS320F28335-based piezosensor monitor-node**

**Märten, Olev; Saar, Tõnis; Reidla, Marko** EDERC2010 European DSP in Education and Research Conference : proceedings, (Nice, France, Dec 1-2, 2010) 2010 / p. 62-65 <https://ieeexplore.ieee.org/document/6151408>

### **A tool for lung nodules analysis based on segmentation and morphological operation**

**Gupta, Anindya; Märten, Olev; Le Moullec, Yannick; Saar, Tõnis** 2015 IEEE 9th International Symposium on Intelligent Signal Processing (WISP 2015) : Siena, Italy, 15-17 May 2015 : [proceedings] 2015 / p. 193-197 : ill <http://dx.doi.org/10.1109/WISP.2015.7139186>

### **Unsupervised feature mapping via stacked sparse autoencoder for automated detection of large pulmonary nodules in CT images**

**Gupta, Anindya; Saar, Tõnis; Märten, Olev; Le Moullec, Yannick** Elektronika ir elektrotehnika = Electronics and electrical engineering 2017 / p. 59-63 : ill <https://doi.org/10.5755/j01.eie.23.6.19695> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Variable-resolution image processing for validation of coins**

**Märten, Olev; Saar, Tõnis; Gavrijaševa, Alina; Mölder, Ago** 2011 IEEE 7th International Symposium on Intelligent Signal Processing (WISP) : Floriana, Malta, September 19-21, 2011 : proceedings 2011 / p. 176-179 : ill <https://ieeexplore.ieee.org/document/6051711>