

### **A robust detector for impulsive noise environment**

**Trump, Tõnu** Proceedings of the Forty-first Asilomar Conference on Signals, Systems and Computers : Asilomar, USA, November 4-7, 2007 2007 / ? p <https://ieeexplore.ieee.org/document/4487311/keywords#keywords>

### **A robust detector for uniformly distributed noise**

**Trump, Tõnu** Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing : ICASSP 2010 : Dallas, Texas, USA, 14-19 March 2010 2010 / p. 3870-3873

### **Adaptiivsed filtrid ning nende rakendused sidesüsteemides**

**Trump, Tõnu** 2008 [http://www.ester.ee/record=b2394450\\*est](http://www.ester.ee/record=b2394450*est) <https://digikogu.taltech.ee/et/Item/51142671-1474-43d5-9216-0fa53d9de5cd>

### **Adaptive equalizer for Mode S receiver**

**Tart, Allan; Trump, Tõnu** 2013 8th International Workshop on Systems, Signal Processing and their Applications (WoSSPA) : 12-15 May, 2013, Algiers, Algeria 2013 / p. 310-315 : ill

### **Adaptive filter combinations**

**Trump, Tõnu** Recent advances in telecommunications and circuits : [proceedings of the 11th ELECTROSCIENCE'13, 2nd CSCCA'13, 1st SSC'13, 1st ANPRO'13 : Dubrovnik, Croatia, June 25-27, 2013] 2013 / p. 12 : portr

### **An adaptive sensor array using an affine combination of two filters [Electronic resource]**

**Trump, Tõnu** Proceedings of the international conferences : Saint Malo & Mont Saint-Michel, France, April 2-4, 2012 2012 / p. 157-162 : ill [CD-ROM] <https://dl.acm.org/doi/abs/10.5555/2230716.2230747>

### **An affine combination of adaptive filters for channels with different sparsity levels**

**Butsenko, Maksim; Trump, Tõnu** Telfor journal 2016 / p. 32-37 : ill <http://dx.doi.org/10.5937/telfor1601032B>

### **An affine combination of adaptive filters for sparse impulse response identification**

**Butsenko, Maksim; Trump, Tõnu** 2015 23rd Telecommunications Forum (TELFOR) : Belgrade, Serbia, November, 24-26, 2015 : proceedings of papers = XXIII Телекомуникациони Форум ТЕЛФОР 2015 : зборник радова 2015 / p. 396-399 : ill <http://dx.doi.org/10.1109/TELFOR.2015.7377491>

### **An output signal based combination of three LMS adaptive filters**

**Trump, Tõnu** 2013 18th International Conference on Digital Signal Processing (DSP) : [proceedings] 2013 / [6 p.] : ill

### **An output signal based combination of two NLMS adaptive algorithms**

**Trump, Tõnu** 16th International Conference on Digital Signal Processing : July 5-7, 2009, Santorini, Greece 2009 / ? p <https://ieeexplore.ieee.org/abstract/document/5201077>

### **Applications of a combination of two adaptive filters**

**Trump, Tõnu** Adaptive filtering - theories and applications 2013 / p. 61-89 : ill

### **A combination of two NLMS filters in an adaptive line enhancer [Electronic resource]**

**Trump, Tõnu** 17th International Conference on Digital Signal Processing, 6-8 July 2011, Corfu, Greece : proceedings 2011 / [6 p.] : ill. [CD-ROM]

### **Combinations of adaptive filters : plenary lecture**

**Trump, Tõnu** Advances in Sensors, Signals, Visualization, Imaging and Simulation : [proceedings of the 5th WSEAS International Conference SENSIG'12 and VIS'12, Sliema, Malta, September 7-9, 2012] 2012 / p. 19 : phot

### **Combinations of two LMS adaptive filters**

**Trump, Tõnu** Advances in Sensors, Signals, Visualization, Imaging and Simulation : [proceedings of the 5th WSEAS International Conference SENSIG'12 and VIS'12, Sliema, Malta, September 7-9, 2012] 2012 / p. 53-58 : ill

### **Combined tomlinson pre-equalization and spectral sheping**

**Trump, Tõnu;** Forssen, U. Proc. COST 229 WC.1+2 second vigo workshop on adaptive methods and emergent techniques for signal processing and communications, Spain 1993

### **Common algorithmic and structural description of procedures of short discrete Fourier transform**

**Arro, Ilmar; Trump, Tõnu;** Smolyansky, L. Latvian Signal Processing International Conference : proceedings. Vol. 1 1990 / p. 118-122

### **Convergence of output signal based combination of two LMS adaptive filters**

**Trump, Tõnu** IEEE 26-th Convention of Electrical and Electronics Engineers in Israel (IEEEI 2010) : Nov. 17-20, 2010, Eilat 2010 / p. 109-113 <https://ieeexplore.ieee.org/document/5661910>

### **CTA diffusion based recursive energy detection**

**Ainomäe, Ahti; Trump, Tõnu; Bengtsson, Mats** Latest trends in circuits, systems, signal processing and automatic control : [proceedings of the 5th CSCS'14, the 2nd ASAP'14 : Salerno, Italy, June 3-5, 2014] 2014 / p. 38-47 : ill

### **Detection of echo generated in mobile phones**

**Trump, Tõnu** Recent advances in signal processing 2009 / p. 267-280 : ill

### **Detection of echo generated in mobile phones using pitch distance**

**Trump, Tõnu** Proceedings of 16th European Signal Processing Conference (EUSIPCO) : Lausanne, Switzerland, August 25-29, 2008 2008 / [5 p.] : ill <https://ieeexplore.ieee.org/document/7080519>

### **Detection of the consistency of two speech signals using pitch periods**

**Trump, Tõnu** Proceedings of the Estonian Academy of Sciences 2013 / p. 88-96 : ill <https://doi.org/10.3176/proc.2013.2.02> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Detection speed of responsive communication jamming detectors**

**Trump, Tõnu; Mürsepp, Ivo** Recent advances in telecommunications and circuits : [proceedings of the 11th ELECTROSCIENCE'13, 2nd CSCCA'13, 1st SSC'13, 1st ANPRO'13 : Dubrovnik, Croatia, June 25-27, 2013] 2013 / p. 149-154 : ill

### **Discrete Fourier cosine transform filtering**

**Trump, Tõnu** Tallinna Tehnikaülikooli Toimetised 1994 / lk. 23-31: ill

### **Distributed adaptive largest eigenvalue detection with SNR weighted observations [Online resource]**

**Ainomäe, Ahti; Trump, Tõnu; Le Moullec, Yannick** BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p. : ill <https://doi.org/10.1109/BEC.2018.8600974>

### **Distributed adaptive network performance with static topology and unweighed communication**

**Ulp, Sander; Trump, Tõnu** Latest trends in circuits, systems, signal processing and automatic control : [proceedings of the 5th CSCS'14, the 2nd ASAP'14 : Salerno, Italy, June 3-5, 2014] 2014 / p. 126-130 : ill

### **Distributed adaptive network with SNR weighed communication**

**Ulp, Sander; Trump, Tõnu** 2015 Third International Conference on Digital Information, Networking, and Wireless Communications (DINWC 2015) : Moscow, Russia, 3-5 February 2015 2015 / p. 83-87 : ill

### **Distributed diffusion LMS based energy detection**

**Ainomäe, Ahti; Trump, Tõnu; Bengtsson, Mats** 2014 6th International Congress on Ultra Modern Telecommunications and Control Systems (ICUMT) 2014 / p. 176-183 : ill

### **Distributed largest eigenvalue detection**

**Ainomäe, Ahti; Trump, Tõnu; Bengtsson, Mats** 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing : proceedings : March 5-9, 2017, Hilton New Orleans Riverside, New Orleans, Louisiana, USA 2017 / p. 3519-3523 : ill <https://doi.org/10.1109/ICASSP.2017.7952811> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Distributed largest eigenvalue-based spectrum sensing using diffusion LMS**

**Ainomäe, Ahti; Bengtsson, Mats; Trump, Tõnu** IEEE transactions on signal and information processing over networks 2018 / p. 362-377 : ill <https://doi.org/10.1109/TSPN.2017.2705483> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Distributed recursive energy detection**

**Ainomäe, Ahti; Trump, Tõnu; Bengtsson, Mats** 2014 IEEE Wireless Communication and Networking Conference (WCNC) 2014 / p. 1242-1247 : ill

### **Distributed signal processing in cognitive radio networks = Hajutatud signaalitöötlus kognitiivse raadio võrgus**

**Ainomäe, Ahti** 2018 <https://digi.lib.ttu.ee/i/?9956> [https://www.ester.ee/record=b5138040\\*est](https://www.ester.ee/record=b5138040*est)

### **A dual filter scheme for secondary surveillance radar reply signals**

**Trump, Tõnu; Tart, Allan** Recent advances in telecommunications and circuits : [proceedings of the 11th ELECTROSCIENCE'13, 2nd CSCCA'13, 1st SSC'13, 1st ANPRO'13 : Dubrovnik, Croatia, June 25-27, 2013] 2013 / p. 143-148 : ill

### **An energy detector for spectrum sensing in impulsive noise environment**

**Trump, Tõnu; Mürsepp, Ivo** 22nd IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'11) : Toronto, Canada, 11-14 september 2011 2011 / p. 467-471 : ill <https://doi.org/10.1109/PIMRC.2011.6140004>

### **Intervjuu signaalitöötlusprofessori Tõnu Trump'iga**

**Trump, Tõnu; Raja, Aimur A & A** 2009 / lk. 8-11 : ill

### **Leader selection in cooperative network based on MDL subspace algorithm for cognitive radio**

**Ulp, Sander; Trump, Tõnu** Conference Record of The Fiftieth Asilomar Conference on Signals, Systems & Computers : November 6-9, 2016, Pacific Grove, California 2017 / p. 704-708 : ill <https://doi.org/10.1109/ACSSC.2016.7869136> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Maximum likelihood estimation of nominal direction of arrival and angular spread using an array of sensors**

**Trump, Tõnu**; Ottersten, B. Proceedings COST 229 Final Workshop on Adaptive Systems, Intelligent Approaches, Massively Parallel Computing and Emergent Techniques in Signal Processing and Communications, Oct. 1994, Bayona (Vigo), Spain 1994 / p. 77-82  
[https://www.researchgate.net/publication/2686731\\_Maximum\\_Likelihood\\_Estimation\\_of\\_Nominal\\_Direction\\_of\\_Arrival\\_and\\_Angular\\_Spread\\_Using\\_an\\_Array\\_of\\_Sensors](https://www.researchgate.net/publication/2686731_Maximum_Likelihood_Estimation_of_Nominal_Direction_of_Arrival_and_Angular_Spread_Using_an_Array_of_Sensors)

### **On a combination of M adaptive filters**

**Trump, Tõnu** The 21st European Signal Processing Conference : 9-13 September 2013, Palais des Congres, Marrakech 2013 / p. 1-5 : ill

### **On the statistical properties of tomlinson filters**

**Trump, Tõnu**; Forssen, U. Proc. IEEE Winter Workshop on Nonlinear Signal Processing, Finland 1993

### **On the statistical properties of tomlinson filters**

**Trump, Tõnu**; Forssen, U. 1993

### **Outage probability of a robust antenna array**

**Astra, Egon; Trump, Tõnu** Latest trends in circuits, systems, signal processing and automatic control : [proceedings of the 5th CSCS'14, the 2nd ASAP'14 : Salerno, Italy, June 3-5, 2014] 2014 / p. 64-69 : ill

### **Output signal based combination of two NLMS adaptive filters - transient analysis**

**Trump, Tõnu** Proceedings of the Estonian Academy of Sciences 2011 / 4, p. 258-268 : ill

### **Output statistics of a line enhancer based on a combination of two adaptive filters**

**Trump, Tõnu** Central European journal of engineering 2011 / p. 244-252 : ill

### **Performance evaluation of some adaptive algorithms**

**Trump, Tõnu; Lemendik, Laur** BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 199-202: ill

### **Reordering of spectrum obtained via the two-dimensional short Fourier transform algorithm**

**Trump, Tõnu** Tallinna Tehnikaülikooli Toimetised 1994 / lk. 15-22

### **Robust adaptive beamforming for surveillance system using 2D antenna array**

**Tart, Allan; Trump, Tõnu** 2014 Tyrrhenian International Workshop on Digital Communications : Enhanced Surveillance of Aircraft and Vehicles TIWDC/ESAV : September 15th-16th, 2014, Rome, Italy 2014 / p. 110-115 : ill

### **A robust adaptive sensor array with slepian sequences [Electronic resource]**

**Trump, Tõnu** The Seventh IEEE Sensor Array and Multichannel Signal Processing Workshop : June 17-20, 2012, Hoboken, New York, USA 2012 / p. 121-124 : ill [CD-ROM] <https://ieeexplore.ieee.org/document/6250444>

### **Robust algorithms for signal processing : plenary lecture 2**

**Trump, Tõnu** Latest trends in circuits, systems, signal processing and automatic control : [proceedings of the 5th CSCS'14, the 2nd ASAP'14 : Salerno, Italy, June 3-5, 2014] 2014 / p. 12 : phot

### **Robust detectors for cognitive radio = Robustsed detektorid kognitiivsele raadiole**

**Müürsepp, Ivo** 2013 [https://www.ester.ee/record=b2996730\\*est](https://www.ester.ee/record=b2996730*est)

### **Robust detectors for cognitive radio system**

**Trump, Tõnu; Khan, Imtiyaz** EURASIP journal on wireless communications and networking 2015 / p. 1-16 : ill  
<https://doi.org/10.1186/s13638-015-0487-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A robust eigenvalue ratio detector for cognitive radio [Electronic resource]**

**Trump, Tõnu** 19th International Conference on Digital Signal Processing : 20-23 August 2014, The Hong Kong Polytechnic University : [proceedings] 2014 / p. 30-35 : ill. [USB]

### **Robust spectrum sensing for cognitive radio [Electronic resource]**

**Trump, Tõnu; Müürsepp, Ivo** 19th European Signal Processing Conference (EUSIPCO 2011), Barcelona, August 29-September 2,

**Short algorithm for real-valued multidimensional Fourier transform**

**Arro, Ilmar; Trump, Tõnu** Proc. International Conf. on Statistical Methods in the Theory of Transmission and Transformation of Information Signals 1993

**Some aspects of combining trellis coded modulation with tomlinson pre-equalization**

**Trump, Tõnu;** Forssen, U. 1993

**Some new aspects of digital filtering**

**Trump, Tõnu** 1993 [http://www.ester.ee/record=b1065194\\*est](http://www.ester.ee/record=b1065194*est)

**Some new aspects of digital filtering : a thesis ... for the degree of doctor of engineering**

**Trump, Tõnu** 1993 [http://www.ester.ee/record=b2677070\\*est](http://www.ester.ee/record=b2677070*est)

**Some novel algorithms for processing sensor array output signals = Uudsed algoritmid antennivõre väljundsignaali töötlemiseks**

**Tart, Allan** 2021 [https://www.ester.ee/record=b5432623\\*est](https://www.ester.ee/record=b5432623*est) <https://digikogu.taltech.ee/et/Item/531692ce-bea0-44ef-afa5-43048e728052>  
<https://doi.org/10.23658/taltech.26/2021>

**Steady state analysis of an output signal based combination of two NLMS adaptive filters**

**Trump, Tõnu** 17th European Signal Processing Conference (EUSIPCO 2009) : 24-28 August 2009 2009 / p. 1720-1724  
<https://ieeexplore.ieee.org/document/7077570>

**Tracking performance of a combination of two NLMS adaptive filters**

**Trump, Tõnu** 15th IEEE Workshop on Statistical Signal Processing : Cardiff, UK, 31 August - 3 September 2009 2009 / p. 181-184  
<https://ieeexplore.ieee.org/document/5278610>

**Transient analysis of a combination of two adaptive filters**

**Trump, Tõnu** Adaptive filtering 2011 / p. 297-312 : ill

**Transient analysis of an output signal based combination of two NLMS adaptive filters**

**Trump, Tõnu** IEEE International Workshop on Machine Learning for Signal Processing (MLSP) : Aug. 29 - Sept.1, 2010, Kittilä, Finland 2010 / p. 244-249 <https://ieeexplore.ieee.org/document/5589261>

**Two dimensional robust beamforming for air-ground communication system**

**Tart, Allan; Trump, Tõnu** 2014 Integrated Communications Navigation and Surveillance (ICNS) Conference : April 8-10, 2014 2014 / p. B2-1-B2-8 : ill

**Алгоритмы, программы, спецпроцессоры многомерного дискретного преобразования Фурье : автореферат ... кандидата технических наук (05.13.01)**

**Trump, Tõnu** 1990 [http://www.ester.ee/record=b1258282\\*est](http://www.ester.ee/record=b1258282*est)

**Анализ ошибок алгоритмов сокращенного вычисления дискретного преобразования Фурье для арифметики с фиксированной запятой**

**Trump, Tõnu** Методы и алгоритмы цифровой обработки сигналов 1988 / с. 54-63

**Генерирование и преобразование сигналов на микропроцессоре**

**Trump, Tõnu** XXVII студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 19-21 апреля 1983 г : тезисы докладов. Часть 2 1983 / с. 20 [https://www.ester.ee/record=b1571566\\*est](https://www.ester.ee/record=b1571566*est)

**Микропроцессорный измеритель параметров гармонического сигнала**

**Ots, Avo; Trump, Tõnu** Методы и устройства регистрации, передачи, обработки и представления информации 1986 / с. 69-71

**Радиотехника**

**Umborg, Jaak; Heinrichsen, Vladimir; Arro, Ilmar; Sullakatko, Toomas; Smoljanski, Leonid; Vannas, Villem; Germ, Eduard; Niinsalu, Udo; Lumberg, Tõnu; Loitme, Olev; Laksberg, Edgar; Nelus, K.; Ess, Viktor; Ots, Avo; Trump, Tõnu; Gerasimtšuk, Valeri; Schults, Eduard; Hinrikus, Hiie; Taklaja, Andres; Zahharov, Boriss; Kljušin, J.B.; Nadolinets, L.D.** 1986  
[https://www.ester.ee/record=b1232381\\*est](https://www.ester.ee/record=b1232381*est)

**Радиотехника**

**Hinrikus, Hiie; Rätsep, Ülo; Ratassepp, Jaak; Niinsalu, Udo; Madar, Urve; Trump, Tõnu; Martverk, Peep; Raja, Aimur; Müller, E.; Meister, Ants; Allik, V.; Lumberg, Tõnu; Loitme, Olev; Kruming, Boris; Animägi, T.; Borštševski, A.I.; Kangur, Oleg** 1987  
[https://www.ester.ee/record=b1273977\\*est](https://www.ester.ee/record=b1273977*est)

**Радиотехника**

**Viies, Vladimir; Schults, Eduard; Andra, Andres; Martverk, Peep; Raja, Aimur; Meister, Ants; Loitme, Olev; Pungar, Eda-Tiia; Arro, Ilmar; Trump, Tõnu; Gurjanov, Boris; Belkina, I.I.** 1988 [https://www.ester.ee/record=b1292907\\*est](https://www.ester.ee/record=b1292907*est)

**Сокращенное вычисление двумерного дискретного преобразования Фурье**

**Arro, Ilmar; Trump, Tõnu** Методы и алгоритмы цифровой обработки сигналов 1988 / с. 45-53

**Спектры фолша радиотехнических сигналов**

**Madar, Urve; Trump, Tõnu** Методы цифровой обработки и хранения радиотехнических сигналов 1987 / с. 12-16