

List of publications

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References

Publications

Journal papers

- [1] **B. Kovács**. Mathematical remarks on Token Bucket *Statistics and Probability Letters*, to be submitted.
- [2] **B. Kovács**. Rate based call gapping with priorities and fairness between traffic classes *IEEE/ACM Transactions on Networks*, submitted, under review.
- [3] **B. Kovács**, János Tóth. Estimating Reaction rate constants with neural networks *International Journal of Applied Mathematics and Computer Sciences* Volume 4, Number 1, 2007, ISSN 1305-5313, pp 7-11. **(Comment: This paper is selected for journal publication i.e. the journal version of [15].)**
- [4] **B. Kovács**, Máté Szalay, Sándor Imre. Modeling and quantitative analysis of LTRACK - A New Mobility Management Algorithm *Mobile Information Systems* Volume 2, Number 1, 2006, pp 21-50. **(Comment: Selected for publication and very much extended version of [19].)**

Other journal papers

These papers are connected to my PhD work but not part of my thesis.

- [5] **B. Kovács**, Péter Fülöp, Sándor Imre. Mobility Management Algorithms for the Client-driven Mobility Frame System - Mobility from a Brand New Point of View *Mobile Information Systems* Number iiWAS/MoMM 2008 Special Issue, 2009. **(Comment: Accepted for publication, the very much extended version of [11].)**
- [6] Ilona Nagy, **B. Kovács**, János Tóth. Detailed Balance in Ion Channels: Application of Feinberg's Theorem *Reaction Kinetics Cat. Letters* Volume 96, Number 2, 263–267, 2009, Akadémiai Kiadó Budapest and Springer, Dordrecht.
- [7] **B. Kovács**, Péter Fülöp, Sándor Imre. A Client-driven mobility frame system, – mobility management from a new point of view *Telecommunications* Volume LXIII, Number 10, 2008. **(Comment: Selected paper, the English translation of [10].)**
- [8] **B. Kovács**, Péter Fülöp, Sándor Imre. Kliens vezérelt mobilitás, – mobilitás menedzsment új nézőpontból *Híradástechnika* Volume LXIII, Number 10, 2008.

- [9] **B. Kovács**, Péter Fülöp, Sándor Imre. Numerical analysis of mobility management algorithms *Telecommunications* Volume LXII, Number 7, 2007, pp 32–38. **(Comment: Selected paper, the English translation of [10].)**
- [10] **B. Kovács**, Péter Fülöp, Sándor Imre. Mobilitás-menedzsment algoritmusok numerikus vizsgálatá *Híradástechnika* Volume LXII, Number 4, 2007, pp 47–53.

Conference papers

- [11] **B. Kovács**, Péter Fülöp, Sándor Imre. Mobility Management Algorithms for the Client-driven Mobility frame System In *Proc.*, pp 227-235, *MOMM 2008*, Linz, Austria 2008.11.26 **(See: [5].)**
- [12] **B. Kovács**, Péter Fülöp, Sándor Imre. A Client-driven Mobility Management - Mobility from a New Point of View In *Networks 2008, Conference Proceedings*, Budapest, Hungary 2008.10.01
- [13] **B. Kovács**, Péter Fülöp, Sándor Imre. A Client-driven Mobility Frame System (CMFS) In *HSN Workshop, Poster*, Balatonkenese, Hungary 2008.05.
- [14] **B. Kovács**, Péter Fülöp, Sándor Imre. Enhanced mobility management framework In *Proc.*, *International Conference: 6th Computer Information Systems and Industrial Management Applications (CISIM 2007)*, Elk, Poland 2007.06.28
- [15] **B. Kovács**, János Tóth. Estimating reaction rate constants with neural networks In *Conference on Computing, Information and Systems Science and Engineering 2007*, Barcelona, Spain, 2007. **(See: [3].)**
- [16] **B. Kovács**, Péter Fülöp, Sándor Imre. Extended mobility management framework In *HSN Workshop, Poster*, Balatonkenese, Hungary 2007.05.
- [17] **B. Kovács**, Péter Fülöp, Sándor Imre. Study on mobility management modeling methods In *Proc.*, *MOMM 2006*, Yogyakarta, Indonesia 2006.12.4. **(Comment: Extended version of [18].)**
- [18] **B. Kovács**, Péter Fülöp. Study on mobility management modeling methods In *Proc.*, *HTE Students Conference 2006*, Budapest, Hungary 2006.05. **(See: [17].)**
- [19] **B. Kovács**, Máté Szalay, Sándor Imre. Modeling and quantitative analysis of LTRACK - Novel mobility management algorithm In *Proc.*, *MOMM 2005*, Kuala Lumpur, Malaysia 2005.09.22. **(Comment: Best Paper Award.)**
- [20] **B. Kovács**, Máté Szalay. Analysis and Parameter Optimization of LTRACK, an IP Mobility Management Algorithm management algorithm In *Proc.*, *HTE Students Conference 2005*, Budapest, Hungary 2005.05.

Conference presentations

- [21] **B. Kovács**, János Tóth. Parameter estimation of differential equations In *8th Colloquium on Qualitative Theory of Differential Equations*, Szeged, Hungary, 2007.06.27.
- [22] **B. Kovács**, János Tóth. Módszerek reakcióállanók becslésére In *Előadás az MTA Reakciókinetikai munkabizottságának ülésén*, Gyönöstarján, 2006.11.03
- [23] **B. Kovács**, János Tóth. Neurális hálózatok alkalmazása differenciálegyenletek paramétereinek becslésére In *Matematikai s Vizualizációs Programcsomagok Alkalmazóinak Baráti Társasága*, Szegedi Tudományegyetem ÁOK Orvosi Informatikai Intázet 2003.11.28

Patents and Technical documents

- [24] **B. Kovács**, Gábor Németh, Zsolt Kenesi Advanced rate estimation algorithm. Technical document, Report 09/1, Ericsson Telecommunications Hungary, Research Laboratory, Budapest, 2009
- [25] **B. Kovács**. Enhanced H.248.11 Overload Control. Technical document, Report 09/1, Ericsson Telecommunications Hungary, Research Laboratory, Budapest, 2009
- [26] **B. Kovács**. Enhanced token bucket mechanism with priority handling Patent: P26074
- [27] **B. Kovács**, G. Németh, Zs. Kenesi. Enhanced method for overload control in Next Generation Networks (P26694)
- [28] **B. Kovács**, G. Németh, Zs. Kenesi. A method to provide minimum resource sharing without buffering requests (P28221)
- [29] **B. Kovács**, G. Németh, Zs. Kenesi. A method to provide minimum service levels in communication systems (under submission)