5.1 PUBBLICAZIONI SU RIVISTE INTERNAZIONALI ACCETTATE CON IL SISTEMA DI PEER-REVIEW

[38] L. De Cicco, G. Cofano, and S. Mascolo, **Local SIP Overload Control: Controller Design and Optimization by Extremum Seeking,** *IEEE Transactions on Control of Network Systems*, Vol. 2, Issue 3, pp. 267-277, , Sept. 2015

[37] L. De Cicco and S. Mascolo,
An Adaptive Video Streaming Control System: Modeling, Validation, and Performance Evaluation, *IEEE/ACM Transaction on Networking*, April 2014

[J36] L. DE CICCO, S.MASCOLO, S.-I. NICULESCU,
"Robust Stability Analysis of Smith Predictor-based Congestion Control Algorithms for Computer Networks", **Automatica**, **Elsevier**, vol. 47, issue 8, pp. 1685-1692, August, 2011.

[J35] L. DE CICCO, SAVERIO MASCOLO, V. Palmisano
Skype Video Congestion Control: an Experimental Investigation
Computer Newtorks, Elsevier, vol. 55, n.3, pp. 558-571, 2011. **IF 1.69**

[J34] L. DE CICCO, SAVERIO MASCOLO,
"A Mathematical Model of the Skype VoIP Congestion Control Algorithm",
IEEE Trans. on Automatic Control, vol. 55, n. 3, pp. 790-795, Mar 2010. **IF 3.293**

[J33] G. BOGGIA, P. CAMARDA, L. A. GRIECO, SAVERIO MASCOLO,
"Feedback-based Control for Providing Real-time Services with the 802.11e MAC"
IEEE/ACM Trans. on Networking, vol.15, no.2, pp. 323-333, April 2007. (**Regular paper). IF 1.831.**

[J32] G BOGGIA, P CAMARDA, LA GRIECO, SAVERIO MASCOLO,
"Energy Efficient Feedback-based Scheduler for Delay Guarantees in IEEE 802.11e Networks"
Computer Communications 29, March 2006, 2680-2692, Elsevier Journal. (**Regular paper). IF 0.391.**

[J31] SAVERIO MASCOLO,
"Modeling the Internet congestion control using a Smith controller with input shaping**"**
Control Engineering Practice, vol. 14, Issue 4, pp. 425-435, April 2006, Elsevier. (**Regular paper). IF 1.263.**

[J30] L. A. GRIECO, SAVERIO MASCOLO,
"A Congestion Control Algorithm for the Deep Space Internet",
Space Communications, An International Journal, Special Issue on Satellite Network Protocols , Volume 20, Number 3/4, 2005, pp. 155-160. (**Regular paper). IF. 0.250.**

[J29] L. A. GRIECO AND S. MASCOLO,
"Mathematical analysis of Westwood+ TCP congestion control"
IEE PROCEEDINGS-CONTROL THEORY AND APPLICATIONS, vol. 152, no.1, pp. 35-42, Jan 2005. (**Regular paper). IF 1.045.**

[J28] G. BOGGIA, P. CAMARDA, L. A. GRIECO, S. MASCOLO,
"Feedback based Bandwidth Allocation with Call Admission Control for Providing Delay Guarantees in IEEE 802.11e Networks",
Computer Communications, Elsevier Journal, Volume 28, Issue 3, 24 February 2005, pp. 325-337. (**Regular paper). IF. 0.391.**

[J27] D. CAVENDISH, M. GERLA, S. MASCOLO
"A Control Theoretical Approach to Congestion Control in Packet Networks"
IEEE/ACM Transactions on Networking, vol. 12, no. 5, pp. 893-906, October 2004. (**Regular paper). IF 1.789.**

[J26] L. A. GRIECO, S. MASCOLO,
"Performance Evaluation and Comparison of Westwood+, New Reno, and Vegas TCP Congestion Control"
ACM Computer Communication Review, vol. 34, no. 2, pp. 25-38, April 2004. (**Regular paper**). **IF. 0.578.**

[J25] L.A. GRIECO, S. MASCOLO,
"Adaptive Rate Control for Streaming Flows over the Internet"

ACM Multimedia Systems Journal, vol. 9, no. 6, pp. 517 – 532, June 2004, Springer-Verlag. **(Regular paper). IF 0.438.**

[J24] L. A. GRIECO, S. MASCOLO,
"Intraprotocol Fairness and Interprotocol Friendliness of the TFRC Congestion Control Algorithm",
IEE Electronics Letters, 4th March 2004, vol. 40, no. 5. **IF 1.063.**

[J23] S. MASCOLO, L.A. GRIECO, E. DI SCIASCIO,
"ETERCA: An End-to-end Rate Control Algorithm for Packet Switching Networks",
Journal of High Speed Networks, issue no.2, vol. 13, March 2004, IOS Press, The Netherlands. (**Regular paper**). **IF 0.103.**

[J22] S. MASCOLO,
"Dead-time and Feed-forward Disturbance Compensation for Congestion Control in Data Networks,"
International Journal on System Science, Special Issue on: Time Delay Systems for Communication Networks, vol. 34, no. 10-11, pp. 627-639, 15 Aug-15 Sept. 2003, Taylor and Francis Group. **(Regular paper). IF 0.492**.

[J21] S. MASCOLO, L. A. GRIECO, R. FERORELLI, P. CAMARDA , G. PISCITELLI
"Performance evaluation of Westwood+ TCP congestion control"
Performance Evaluation, 55 (2004), pp. 93-111, *Special Issue with Selected papers from Golbecom 02*, Elsevier, North-Holland, January 2004. **(Regular paper). IF 0.694.**

[J20] C. CASETTI, M. GERLA, S. MASCOLO, M. SANADIDI, R. WANG
"TCP Westwood: end-to-end bandwidth estimation for enhanced transport over wireless links",
ACM Wireless Networks, *Special issue with Extended Versions of selected papers from Mobicom 2001,* vol. 8, no. 5, pp.467-479, Sept. 2002. Springer Netherlands. **(Regular paper).** (Il paper pubblicato a Mobicom è citato 378 volte). **IF 1.350.**

[J19] M. GERLA, R. LOCIGNO, S. MASCOLO, W. WENG,
"Generalized Window Advertising for TCP Congestion Control",
European Transactions on Telecommunications, vol. 13, no. 6, pp. 549-562, Nov/Dec. 2002. **(Regular paper). IF 0.236.**

[J18] G. GRASSI, S. MASCOLO,
"A systematic procedure for synchronizing hyperchaos via observer design",
Journal of Circuits, Systems, and Computers, Vol. 11, No. 1 (2002) 1-16, World Scientific Publishing Company. **(Letter). IF 0.264.**

[J17] S. MASCOLO,
"Smith's Principle for Congestion Control in High Speed Data Networks",
IEEE Trans. on Automatic Control, vol. 45, no. 2, pp. 358-364, Feb 2000. **(Technical Note). IF 1.553.**

[J16] S. MASCOLO,
"Congestion control in high-speed communication networks using the Smith principle",
Automatica, vol. 35, no. 12, Dec. 1999, pp. 1921-1935. Special Issue on "*Control methods for communication networks".* Eds. Venkat Anantharam, Jean Walrand **(Regular paper). IF 1.449.**

[J15] S. MASCOLO, D. CAVENDISH, M. GERLA,
"ATM Rate Based Congestion Control Using a Smith Predictor",
Performance Evaluation, **Special Issue on "ATM Traffic Control"**, vol. 31, no. 1-2, Nov. 1997, pp. 51-65, Elsevier. (Si tratta della versione estesa del lavoro pubblicato alla conferenza Infocom 1996 **citato 80** volte). **(Regular paper). IF. 0.593.**

[J14] G. GRASSI, S. MASCOLO,
"Nonlinear observer design to synchronize hyperchaotic systems via a scalar signal",
IEEE Trans. on Circuits and Systems, part I: Fundamental Theory and Applications, Special Issue on "Chaos Synchronization, Control, and Applications", vol. 44, no. 10, pp. 1011-1014, October 1997, Eds. P. Kennedy, and M..J. Ogorzalek. **(Brief). IF 0.595.**

[J13] G. GRASSI, S. MASCOLO,
"Synchronization of hyperchaotic oscillators using a scalar signal",

IEE Electronics Letters, 5 March 1998, vol.34, (no.5):424-425. **IF 0.931.**

[J12] G. GRASSI, S. MASCOLO,
"Synchronizing high dimensional Chaotic systems via eigenvalues placement with applications to cellular neural networks",
International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, vol.9, no.4, pp. 705-711, April 1999. **(Regular paper). IF 0.838.**

[J11] . GRASSI, S. MASCOLO,
"Synchronizing hyperchaotic systems by observer design",
IEEE Transaction on Circuits and Systems, part II:Analog and Digital Signal Processing, vol. 46, no. 4, pp. 478-482, April 1999. **(Brief). IF 0.559. IF 0.559.**

[J10] G. GRASSI, S. MASCOLO,
"Synchronization of high-dimensional chaos generators by observer design",
International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, vol.9, no.6, pp. 1175-1180, June 1999. **(Regular paper). IF 0.838.**

[J9] G. GRASSI, S. MASCOLO,
"Chaos Synchronization in high-order circuits and time-delay systems using observers",
IEE Electronics Letters, 27 May 1999, vol.35, (no.11):939-40. **IF 0.931.**

[J8] G. GRASSI, S. MASCOLO,
"Observer Design for Cryptography based on Hyperchaotic Oscillators",
IEE Electronics Letters, 17 Sept. 1998, vol.34, (no.19):1844-6. **IF 0.931.**

[J7] G. GRASSI, S. MASCOLO,
"A System Theory Approach for Designing Cryptosystems Based on Hyperchaos",
IEEE Transaction on Circuits and Systems, Part I: Fundamental Theory and Applications, vol. 46, n. 9, , pp.1135-1138, Sept. 1999. **(Brief). IF 0.642.**

[J6] G. GRASSI, S. MASCOLO,
"Synchronization of high-order oscillators by observer design with application to hyperchaos-based cryptography",
Int. Journal of Circuit Theory and Applications, Special Issue on Communications, Information Processing and Control using Chaos, vol. 27, 543-553 (1999), John Wiley & Sons. **(Regular paper). IF 0.694.**

[J5] S. MASCOLO, G. GRASSI,
"Controlling chaos via backstepping design",
Physical Review E (Statistical Physics, Plasmas, Fluids, and Related Interdisciplinary Topics), vol. 56, no. 5-B, Nov. 1997, The American Physical Society, pp. 6166−6169. **(Brief). IF 2.142.**

[J4] S. MASCOLO, G. GRASSI,
"Controlling chaotic dynamics using backstepping design with application to the Lorenz system and Chua's circuit
International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, vol. 9, n. 7, pp. 1425-1434, July 1999. **(letters). IF 0.838.**

[J3] P. FANTI, B. MAIONE, S. MASCOLO, B. TURCHIANO,
"Event-based Feedback Control for deadlock Avoidance in Flexible Production Systems",
IEEE Trans. on Robotics and Automation, vol. 13, No. 3, June 1997, pp. 347−363. **(Regular paper). IF 1.375.**

[J2] P. FANTI, B. MAIONE, S. MASCOLO, B. TURCHIANO,
"Performance of Deadlock Avoidance Algorithms in Flexible Manufacturing Systems",
Journal of Manufacturing Systems, vol. 13, no.3, 1996, pp. 164−178, Society of Manufacturing Engineers. **(Regular paper). IF(2000) 0.431**.

[J1] P. FANTI, B. MAIONE, S. MASCOLO, B. TURCHIANO,
"Low-cost Deadlock Avoidance Policies for Flexible Production Systems",
International Journal of Modelling and Simulation, vol. 17, no. 4, pp. 310-316, 1997, Iasted, **(Regular paper).**

5.2 LIBRI EDITI CON IL SISTEMA DI PEER REVIEW

[L.1]   Fernando Boavida, Edmundo Monteiro, Saverio Mascolo, Yevgeni Koucheryavy (Eds.): Wired/Wireless Internet Communications,
Lecture Notes on Computer Science LNCS 4517, Springer, 2007, ISBN 978-3-540-72694-4

5.3 PUBBLICAZIONI CONTENUTE IN LIBRI CON IL SISTEMA DI PEER-REVIEW

[B.1]   S. MASCOLO,
"Linear Control Theory for Modelling, Designing, and Performance Evaluation of ATM Congestion Control Algorithms",
Chapter V of the IV vol. of the **IFIP book on Performance of ATM Networks,**
D. D. Kouvatsos Editor, **Kluwer Academic Publisher**, USA (Oct. 2000), ISBN 0412836408.

[B.2]   S. MASCOLO, M. GERLA,
"Asynchronous Transfer Mode (ATM) Congestion Control Techniques and Applications in Communication and Data Network Systems",
Invited chapter contribution to the volume on *"Database and Data Communication Network Systems Techniques and Applications"*
Academic Press, Cornelius T. Leondes Editor, ISBN: 0124438954; 1st edition (July 2, 2002)

[B.3]   S. MASCOLO,
"Modelling and designing the Internet congestion control"
Invited contribution to the volume "Advances in Communication Control Networks."
Editors S. Tarbouriech (LAAS-CNRS), C.T. Abdallah (University of New Mexico), and J. Chiasson (University of Tennessee).
Lectures Notes in Control and Information Sciences, **LNCIS 308, Springer-Verlag**, pp. 137-158, September 2004. ISBN: 3-540-22819-5.

[B.4]   Book title: "Traffic and QoS Management in Wireless Multimedia Networks"
Contribution to the Chapter Two entitled PACKET SCHEDULING AND CONGESTION CONTROL,Cost290 European Science Foundation, Final Report, Lecture Notes in Electrical Engineering 31, 2009, pag. 13- 87, Springer, ISBN 978-0-387-85572-1.

5.4   PUBBLICAZIONI SU ATTI DI CONGRESSI INTERNAZIONALI ACCETTATE CON IL SISTEMA DI PEER-   REVIEW

[C98]   Giuseppe Cofano, Luca De Cicco, Saverio Mascolo
Characterizing Adaptive Video Streaming Control Systems
Proc. of American Control Conference (ACC 2015), Chicago, USA, July 1-3 2015 (**PDF**)

[C97]   Gaetano Carlucci, Luca De Cicco, Saverio Mascolo
HTTP over UDP: an experimental investigation of QUIC
Proc. of 30th ACM/SIGAPP Symposium On Applied Computing (SAC 2015), Salamanca, Spain, April 2015 (**PDF**) (Slides:**PDF**)

[C96]   Dellino G., Meloni C., Mascolo S.
A Linear Physical Programming approach to Power Flow and Energy Storage Optimization in Smart Grids Models
4th International Conference on Operations Research and Enterprise Systems (ICORES) 2015, Lisbon, Portugal, Jan 2015

[C95]   Giuseppe Cofano, Luca De Cicco, Saverio Mascolo
A Control Architecture for Massive Adaptive Video Streaming Delivery
Proc. of ACM VideoNext Workshop, Sydney, Australia, December 2014

[C94] Luca De Cicco, Vito Caldaralo, Vittorio Palmisano, Saverio Mascolo
TAPAS: a Tool for rApid Prototyping of Adaptive Streaming algorithms
Proc. of ACM VideoNext Workshop, Sydney, Australia, December 2014

[C93] Gaetano Carlucci, Luca De Cicco, Saverio Mascolo
Modelling and Control for Web Real-Time Communication
Proc. of 53rd IEEE Conference on Decision and Control, Los Angeles, California, USA, December 2014

[C92] Carlo Meloni, Gabriella Dellino, Saverio Mascolo, **A Preference-Based Power Flow and Storage Model with Uncertainties for Smart Grids Applications,** *EURO Mini-Conference on Stochastic Programming*, Paris, France, September 2014

[C91] Luca De Cicco, Saverio Mascolo
TCP Congestion Control over HSDPA: an Experimental Evaluation
22nd Mediterranean Conference on Control & Automation, Palermo, Italy, June 2014

[C90] Luca De Cicco, Saverio Mascolo, Silviu-Iulian Niculescu
The Trade-off between Robustness and Disturbance Rejection for Congestion Control Algorithms based on a Modified Smith-Predictor
European Control Conference 2014, Strasbourg, France, 24-27 June 2014 (**PDF**)

[C89] H. Lundin, S. Holmer, H. Alvestrand, L. De Cicco, and S. Mascolo
A Google Congestion Control Algorithm for Real-Time Communication
IETF draft RMCAT wg, draft-alvestrand-rmcat-congestion-02, Feb 2014

[C88] L. De Cicco, G. Cofano and S. Mascolo, **A Hybrid Model of the Akamai Adaptive Streaming Control System,** *Proc. of IFAC World Congress 2014*, Cape Town, South Africa, 24-29 August 2014

[C87] L. De Cicco, V. Caldaralo, V. Palmisano, and S. Mascolo, **ELASTIC: a Client-side Controller for Dynamic Adaptive Streaming over HTTP (DASH),** *Packet Video Workshop 2013*, San Jose, CA, USA, December 2013

[C86] L. De Cicco, G. Carlucci, and S. Mascolo, **Understanding the Dynamic Behaviour of the Google Congestion Control,** *Packet Video Workshop 2013*, San Jose, CA, USA, December 2013

[C85] L. De Cicco, G. Cofano, and S. Mascolo, **Local SIP Overload Control: Controller Design and Optimization by Extremum Seeking**
IEEE CDC 2013, Firenze, Italy, Dec. 2013

[C84] L. De Cicco, G. Carlucci, and S. Mascolo, **Experimental Investigation of the Google Congestion Control for Real-Time Flows,** *ACM SIGCOMM 2013 Workshop on Future Human-Centric Multimedia Networking*, Hong Kong, China

[C83] S. Alfredsson, G. Del Giudice, J. Garcia, A. Brunstrom, L. De Cicco, S. Mascolo,
Impact of TCP Congestion Control on Bufferbloat in Cellular Networks
14th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks, Madrid, Spain, 4-7 June 2013

[C82] L. De Cicco, G. Cofano, and S. Mascolo
Local SIP Overload Control
WWIC 2013, S. Petersburg, Russia, June, 2013.

[C81] L. De Cicco, S. Mascolo, and D. Calamita, **A Resource Allocation Controller for Cloud-based Adaptive Video Streaming**
IEEE ICC'13 - 1st International Workshop on Mobile Cloud Networking and Services (MCN), Budapest, Hungary, June, 2013.

[C80] L. De Cicco, S. Mascolo, and Chaouki T. Abdallah,
"**An Experimental Evaluation of Akamai Adaptive Video Streaming over HSDPA networks**",
in Proc. of IEEE Multi-Conference on Systems and Control 2011 (Invited CACSD-SU Session 'Computing and Control'), Denver, CO, USA, September 28-30, 2011

[C79]   L. De Cicco, S. Mascolo, V. Palmisano
        Feedback Control for Adaptive Live Video Streaming
        in Proc. of ACM Multimedia Systems Conference, San Jose, CA, Feb 23-25,2011.

[C78]   L. De Cicco, S. Mascolo
        An Experimental Investigation of the Akamai Adaptive Video Streaming
        in Proc of USAB 2010, special session Interactive Multimedia Applications (WIMA), Klagenfurt, Austria, 3-4
        November 2010, LCNS 6389, pp. 447-464, Springer-Verlag.

[C77]   L. DE CICCO, S. MASCOLO
        A Mismatch Controller for Implementing High-Speed Rate-based Transport Protocols
        *in **Proc of 17th IEEE International Conference on Network Protocols (ICNP '09),** Princeton, NJ, USA, Oct.
        13-16, 2009.

[C76]   L. DE CICCO, S. MASCOLO, S.-I. NICULESCU
        Robust Stability Analysis of a Class of Smith Predictor-based Congestion Control Algorithms for Computer
        Networks
        IFAC 8th Workshop on Time-Delay Systems, Sinaia, Romania, Sept. 1-3, 2009.

[C75]   L. DE CICCO, S. MASCOLO, V. PALMISANO,
        A Mathematical Model of the Skype VoIP Congestion Control Algorithm
         IEEE Conference on Decision and Control 2008, Dec. 2008, Cancun, Messico.

[C74]   L.   DE   CICCO,   S.   MASCOLO,   V.PALMISANO,
        Skype   Video   Responsiveness   to   Bandwidth   Variations
        ACM Workshop on ***Network and Operating Systems Support for Digital Audio and Video (NOSSDAV) '08,***
        Braunschweig, Germany, May, 2008.

[C73]   L.   DE   CICCO,   S.   MASCOLO,   V.   PALMISANO,
        An Experimental Investigation of the End-to-End QoS of the Apple Darwin Streaming Server
        Wired/Wireless Internet Communications (WWIC) 2008, May, 2008, Tampere, Finland.

[C72]   L.   DE   CICCO,   S.   MASCOLO,
        TCP Congestion Control over 3G Communication Systems: an Experimental Evaluation of New Reno, BIC and
        Westwood+.
        The 7th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networking
        (**NEW2AN 2007**), St.Petersburg, Russia, 10-12 settembre 2007

[C71]   P.   LOUREIRO,   S.   MASCOLO   AND   E.   MONTEIRO,
        Open   Box   Protocol   (OBP)
        Proceedings of High Performance Computation Conference, Houston, USA, 2007 .

[C70]   L.   DE   CICCO,   S.   MASCOLO   AND   V.   PALMISANO,
        An Experimental Investigation of the Congestion Control Used by Skype VoIP
        Wired/Wireless Internet Communications (WWIC) 2007 May 2007, Coimbra, Portogallo. **Cit. 4**

[C69]   G. BOGGIA, P. CAMARDA, A. D'ALCONZO, L. GRIECO, S. MASCOLO,
        Joint Cross-layer Power Control and FEC Design for TCP Westwood+ in Hybrid Wireless-   Wired
Networks
        Proc. of New Technologies, Mobility and Security Conference, NTMS'2007, Paris, May   2007

[C68]   GENNARO BOGGIA, PIETRO CAMARDA, LUIGI A. GRIECO, SAVERIO MASCOLO, A. STEFANELLI,
        Performance Evaluation of Feedback-based Bandwidth Allocation Algorithms for 802.11e   MAC
        Proc. of IEEE VTC 2007 Spring, Dublin, Ireland, April 2007

[C67]   G. BOGGIA, P. CAMARDA, A. D'ALCONZO, L. GRIECO, S. MASCOLO, E. ALTMAN, C. BARAKAT,
        Modeling the AIADD Paradigm in Networks with Variable Delays
        Proc. of Conference on Future Netwroking Technologies, CoNext 2006 – Lisbona, Dec. 2006

[C66]   D.   VALERIO,   L.   DE   CICCO,   S.MASCOLO,   F.   VACIRCA,   T.ZIEGLER,
        Optimization   of   IEEE   802.11   parameters   for   wide   area   coverage
        MEDHOCNET 2006, June 14-17, 2006, Lipari, Italy

[C65]   LUCA DE CICCO, SAVERIO MASCOLO,
        TCP versus TFRC over wired and wireless Internet scenarios: an experimenal evaluation
        The 7th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networking,
        (**NEW2AN 2006),** June 2006, S. Petersburg, Russia

[C64]   A.BAIOCCHI, S.MASCOLO, F.VACIRCA,
        TCP internal buffers optimization for fast long-distance links
        Infocom06 Workshop on High Speed Networking, 24-27, April 2006, Barcellona, Spain

[C63]   E. ALTMAN, C. BARAKAT, S. MASCOLO, N. MOLLER, J.SUN,
        "Analysis of TCP Westwood+ in high speed networks"
        Fourth International Workshop on Protocols for Fast Long-Distance Networks (PFLDNET 2006),   2-3
Feb. 2006, Nara, Japan

[C62]   SAVERIO MASCOLO AND FRANCESCO VACIRCA,
        "The effect of reverse traffic on the performance of new TCP congestion control algorithms for gigabit
        networks",
        Fourth International Workshop on Protocols for Fast Long-Distance Networks (PFLDNET 2006), 2-3
        Feb. 2006, Nara, Japan. **Cit 11**

[C61]   S. MASCOLO, F. VACIRCA,
        "Congestion Control and Sizing Router Buffers in the Internet",
        Invited paper, **IEEE Conference on Decision and Control 2005**, Sevilla, Spain. **Cit. 3**

[C60]   G. BOGGIA P. CAMARDA L. A. GRIECO A. BARBUZZI, G. BINETTI AND S. MASCOLO,
        "Real-time applications in 802.11 WLAN using feedback-based bandwidth allocation"
        In **Proc. of 2005 Tyrrhenian International Workshop on Digital Communications**, Sorrento, Italy, July 2005.

[C59]   S. MASCOLO, F. VACIRCA,
        "Issues in Performance Evaluation of New TCP Stacks in High Speed Networks"
        International Symposium on Performance Evaluation of Computer and Telecommunication Systems
        (SPECTS '05), July 24 - 28, 2005, Philadelphia, Pennsylvania. Cit. 1

[C58]   L. A. GRIECO, S. MASCOLO,
        "Congestion control for the Internet planetary paths",
        16th International Federation Automatic Control (IFAC) World Congress, July 4-8, 2005 Praga. **Sessione
        invitata** organizzaza da S. Mascolo su "Control methods for communication networks".

[C57]   G. BOGGIA, P. CAMARDA, F. A. FAVIA, L. A. GRIECO, AND S. MASCOLO,
        Providing Delay Guarantees and Power Saving in IEEE 802.11e Networks.
        **Proceedings of the 3rd International Conference on Wired/Wireless Internet Communications
        (WWIC'05),** Xanthi, Greece, May 2005.

[C56]   G. BOGGIA, P. CAMARDA, L. A. GRIECO, S. MASCOLO, AND M. NACCI,
        Performance Evaluation of a Feedback Based Dynamic Scheduler for 802.11e MAC.
        Proceedings of the 3rd International Workshop on QoS in Multiservice IP Networks (QoSIP'05), Catania,
        Italy, February 2005.

[C55]   S. MASCOLO AND G. RACANELLI,
        "Testing TCP Westwood+ over Transatlantic Links at 10 Gigabit/Second rate",
        Third International Workshop on Protocols for Fast Long-Distance Networks, 3rd International Workshop
        on Protocols for Fast Long-Distance Networks, PFLDNET, Laboratoire de l'Informatique du Parallélisme**,** Ecole
        Normale Supérieure, LYON, FRANCE, February 3,4 2005, Cit. 4.

[C54]   S. MASCOLO, L.A. GRIECO,
        "TCP for Deep Space Communications Paths",
        Tracking, Telemetry and Command Systems for Space Applications, TTC 2004, 7 – 9 September 2004
        ESOC Darmstadt, Germany *Organised by the European Space Agency (ESA)*

[C53]   G. BOGGIA, P. CAMARDA, L. A. GRIECO, T. LAROCCA, AND S. MASCOLO,

A Call Admission Control with Dynamic Bandwidth Allocation for providing delay guarantees in IEEE 802.11e Networks. In proceedings of the **Seventh International Symposium on Wireless Personal Multimedia Communications** (WPMC'04), Abano Terme, Italy 12-15 September 2004.

[C52]   M. DI BERNARDO, L. A. GRIECO, S. MANFREDI, AND S. MASCOLO,
Design of robust AQM controllers for improved TCP Westwood congestion control.
Invited paper, Proceedings of the 16th International Symposium on Mathematical, Theory of Networks and Systems (**MTNS 2004**), Katholieke Universiteit Leuven, Belgium, June 2004.

[C51]   G. BOGGIA, P. CAMARDA, M. CASTELLANO, O. FIUME, L. A. GRIECO, AND S. MASCOLO,
"A Collision Free MAC Protocol for Energy Saving in Wireless Ad Hoc Networks",
In Proceedings of the **InternationalWorkshop on Wireless Ad-hoc Networks** (IWWAN'04), Oulu, Finland, May 2004. Cit. 3

[C50]   L. A. GRIECO, S. MASCOLO,
"Efficiency, Fairness and Friendliness Evaluation of TFRC and ARC"
Invited paper, **IEEE and Eurasip First International Symposium on Control, Communications and Signal Processing**, 21-24 March 2004, pages353-356, Hammamet, Tunisia.

[C49]   A. ANNESE, G. BOGGIA, P. CAMARDA, L.A. GRIECO, S. MASCOLO,
"A HCF-based bandwidth allocation algorithm for 802.11e MAC"
IEEE Proc. Vehicular Technology Conference 2004 Spring, Milan, Italy 17-19 May, 2004.   Cit. 1

[C48]   A. DELL'AERA, L. A. GRIECO, S. MASCOLO,
"Linux 2.4 Implementation of Westwood+ TCP with rate-halving: A Performance Evaluation over the Internet",
IEEE International Conference on Communications (ICC04), Paris, France, 7-9 June 2004. Cit. 6

[C47]   L. A. GRIECO, G. BOGGIA, S. MASCOLO, AND P. CAMARDA,
"A control theoretic approach for supporting quality of service in Ieee 802.11e WLANs with HCF",
42nd **IEEE Conference on Decision and Control** (**CDC 2003**), Maui, Hawai, December 2003. Cit. 3

[C46]   L. A. GRIECO AND S. MASCOLO,
"Performance evaluation of Westwood+ TCP over WLANs with Local Error Control"
Proceedings of the the 28th Annual **IEEE Conference on Local Computer Networks** (**LCN 2003**), Bonn/Königswinter, Germany, October 20-24, 2003. Cit. 3

[C45]   G. BOGGIA, P. CAMARDA, C. DI ZANNI, L. A. GRIECO, AND S. MASCOLO,
"A dynamic bandwidth allocation algorithm for ieee 802.11e WLANs with HCF access method"
Proceedings of the Fourth COST 263 International Workshop on Quality of Future Internet Services (QoFIS 2003), Royal Swedish Academy of Engineering Sciences, Stoccolma, October 2003, p.142-151, Lectures Notes on Computer Science, Spinger Verlag, ISBN 3-540-20192-0. Cit. 3

[C44]   S. MASCOLO,
"Modeling the Internet Congestion Control as a Time Delay System: A Robust Stability Analysis"
IFAC Workshop on Time-delay Systems, Inria, Rocquencourt, 8-10 September, 2003. Cit. 4

[C43]   L. A. GRIECO AND S. MASCOLO,
"A mathematical model of Westwood+ TCP congestion control algorithm"
Proceedings of the *18th International Teletraffic Congress (ITC-18)*, Berlin, Germany, 31-August, 5 September 2003, Elsevier, ISBN 0444514554. Cit. 4

[C42]   L. A. Grieco, S. Mascolo,
"Adaptive Rate Control for Internet Video Streaming,"
European Control Conference 2003, Cambridge U.K., Sept. 2003. Cit. 1

[C41]   L. A. GRIECO AND S. MASCOLO,
"End-to-end bandwidth estimation algorithms for Westwood TCP congestion control"
In 25th **International Conference Information Technology Interfaces** (ITI 2003), Cavtat, Croatia, June 2003. cit. 1

[C40]   L. A. GRIECO, S. MASCOLO,
"End-to-End Bandwidth Estimation for Congestion Control in Packet Networks",

Proceeding of the Second International Workshop, QoS-IP 2003, Milano, Italy, February 2003, **Lectures Notes on Computer Science 2601**, p.645-658, Spinger Verlag, ISBN 3-540-00604-4. Cit. 16

[C39] S. Mascolo, L. A. Grieco,
"Additive Increase Early Adaptive Decrease Mechanism for TCP Congestion Control",
IEE and IEEE International Conference on Telecommunications (ICT), pages 818–825, Papeete, French Polynesia, February 2003. Cit. 3

[C38] L. A. Grieco, S. Mascolo,
"Smith's Predictor and Feedforward Disturbance Compensation for ATM congestion control",
IEEE Conference on Decision and Control, Las Vegas, Usa, Dec. 2002. Cit. 6

[C37] R. Ferorelli, L. A. Grieco, S. Mascolo, G. Piscitelli, P. Camarda,
"Live Internet Measurements Using Westwood+ TCP Congestion Control",
IEEE Globecom 2002, Taipei, Taiwan. **Cit 10**

[C36] S. Mascolo, L. A. Grieco, P. Camarda,
"Performance Evaluation of TCP over satellite paths,"
European Mobile/Personal Satcoms Conference, September 25-26, 2002 Baveno/Stresa, Lake Maggiore, Italy.

[C35] L. A. Grieco, S. Mascolo, R. Ferorelli,
"Additive Increase Adaptive Decrease Congestion Control: a Mathematical Model and Its Experimental Validation,
IEEE Int. Symposium on Computer and Communications, Giardini Naxos, Italy, July 2002. Cit. 5

[C34] L. A. Grieco, S. Mascolo, E. Di Sciascio,
"A Mathematical Model for the Steady State Throughput of the Westwood TCP Congestion Control Algorithm",
Proceedings of the 24rd International Conference on Information Technology Interfaces ITI 2002. (IEEE Cat. No.01EX491), Dubrovnik, Croatia, June 2002. cit. 2

[C33] L.A. Grieco, S. Mascolo,
"TCP Westwood and Easy RED to Improve Fairness in High-Speed Networks",
Proc. of the Seventh International Workshop on Protocols For High-Speed Networks (PfHSN'2002), April 22 - 24, 2002 Berlin, Germany. Collezione published by **Lecture Notes on Computer Science** (Lcns), Springer Verlag, ISBN 3-540-43658. **cit. 43**

[C32] S. Mascolo, L. A. Grieco, G. Pau, M. Gerla, C. Casetti,
"End-to-End Bandwidth Estimation in TCP to Improve Wireless Link Utilization",
<u>**Invited paper**</u> **European Wireless Conference, Florence**, Italy, Feb. 2002. Cit. 8

[C31] M. Gerla, M. Sanadidi, R. Wang, A. Zanella, C. Casetti, S. Mascolo
"TCP Westwood: Window Control Using Bandwidth Estimation",
IEEE Global Communication Conference (Globecom 2001), St. Antonio, Texas, Nov. 2001. **cit. 97**

[C.30] S. Mascolo
"Insights into TCP/IP congestion control using the Smith principle",
European Control Conference, **Porto, Portugal**, **Sept. 2001**.

[C29] S. Mascolo, G. Grassi,
"On a structural property of a class of chaotic systems",
European Control Conference, **Porto, Portugal**, **Sept. 2001**.

[C28] S. Mascolo, C. Casetti, M. Gerla, S. Lee, M. Sanadidi,
"TCP Westwood: bandwidth estimation for enhanced transport over wireless links",
Proceedings of ACM Mobicom, Rome, Italy, July 2001. C**it. 378**

[C27] S. Mascolo, G. Grassi,
"Controlling chaotic systems with disturbance: a new approach based on backstepping and nonlinear damping",

IEEE International Symposium on Circuits and Systems (ISCAS'01), Sidney, Australia, May **2001, pp. 253-6.**

[C26]   MASCOLO, S.; DI SCIASCIO, E.; GRIECO, L. A.,
"End-to-end congestion control and bandwidth estimation in high speed ATM networks", **Proceedings of the 23rd International Conference on Information Technology Interfaces** ITI 2001. (IEEE Cat. No.01EX491)., Pula, Croatia, 19-22 June 2001. Edited by: Kalpic, D.; Dobric, V.H. Zagreb, Croatia: Univ. Zagreb, 2001. pp. 57-62 vol.1

[C25]   G. GRASSI, S. MASCOLO,
"Driving cryptosystems with hyperchaotic signals: an approach involving linear observers",
IEEE International Symposium on Circuits and Systems (ISCAS2000), Geneve 28-31 2000, pp. 501-4

[C24]   S. MASCOLO, A. GRIECO, E. DI SCIASCIO, M. GERLA,
" End to End Congestion Control and Bandwidth Measurement in High Speed ATM Networks",
IEEE Asynchronous Transfer Mode (ATM) 2000, Int. Conference, Hidelberg, June 2000.

[C23]   G. GRASSI, S. MASCOLO,
"A unified tool for synchronizing chaos in high-order circuits and time delay systems using a scalar signal",
IEEE Int. Conf. on Nonlinear Dynamics of Electronic Systems, (NDES), Catania 18-20 May 2000

[C22]   S. MASCOLO, G. GRASSI,
"Controlling chaotic systems with disturbance using backstepping design and nonlinear damping",
IEEE Int. Conf. on Control of Oscillation and chaos(COC2000), St. Petersburg, 5-7 July 2000.

[C21]   C. CASETTI, M. GERLA, S. LEE, S. MASCOLO, M. SANADIDI,
"TCP with faster recovery",
IEEE Milcom 2000, Proceedings 21st Century Military Communications. Architectures and Technologies for Information Superiority Los Angeles, CA, USA, 22-25 Oct. 2000, p. 320-4 vol.1. **Cit 38**

[C20]   S. MASCOLO
"Classical Control Theory for Congestion Avoidance in High Speed Internet"
Invited paper, IEEE Conf. on Dec. and Control, Dec. 1999, pp. 2709, 2714, Phoenix, Az. **Cit 44**

[C19]   S. MASCOLO
"Smith's principle for Congestion Control in TCP Internet Protocol"
Proc. of American Control Conference, 2-4 June 1999, S. Diego, vol. 6, pp. 4441-5. **Cit 10**

[C18]   G. GRASSI, S. MASCOLO
"Hyperchaos-based secure communications by observer design"
Proc. of the 7th **International Workshop on Nonlinear Dynamics of Electronic Systems (NDES '99),** Island of Bornholm, Denmark, pp. 157-160, July 15-17, 1999.

[C17]   S. MASCOLO, G. GRASSI,
"Backstepping design for controlling chaotic Chua's circuit"
Proc. of the 7th **International Workshop on Nonlinear Dynamics of Electronic Systems (NDES '99)**, Island of Bornholm, Denmark, pp. 201-204, July 15-17.

[C16]   S. MASCOLO, G. GRASSI
"Backstepping Design for Controlling Chaos in the Lorenz System and Chua's Circuit"
Proc. of **the European Conference on Circuit Theory and Design (ECCTD '99),**
Stresa, Italy, pp. 1211-1214, 29 August–2 September, 1999.

[C15]   S. MASCOLO, M. GERLA,
"An ABR congestion control algorithm feeding back available bandwidth and queue level"
1998 IEEE ATM Workshop Proceedings. 'Meeting the Challenges of Deploying the Global Broadband Network Infrastructure', Fairfax, VA, USA, 26-29 May 1998, p. 91-96. **Cit. 3**

[C14]   G. GRASSI, S. MASCOLO
"Synchronization of hyperchaotic cellular neural networks: A system Theory Approach",
IEEE International Joint Conf. on Neural Networks, May 4-9, 1998, Anchorage, Alaska.

[C13]   G. GRASSI, S. MASCOLO
"Design of nonlinear observers for hyperchaos synchronization using a scalar signal"
IEEE International Symposium on Circuits and Systems (ISCAS 98), May 31-June 3, 1998, Monterey, CA.
Cit. 2

[C12]   S. MASCOLO, G. GRASSI,
"Nonlinear observers for hyperchaos synchronization with application to secure communications"
IEEE Conference on Control Applications CCA'98, Trieste, Italy, 1-4 Sept. 1998, pp. 1016-20 vol.2.

[C11]   S. MASCOLO AND M. GERLA,
"Classical control approach to congestion control in high speed ATM networks",
IEEE ATM 97 Workshop, May 25-28, 1997, 361-367, Lisboa, Portugal.

[C10]   S. MASCOLO,
"Linear Control Theory for modeling and performance evaluation of ATM congestion control algorithms",
Proc. of Fifth IFIP Workshop on performance modeling and evaluation of ATM networks, 21-23 July 1997, Ilkey, West Yorkshire, U.K.

[C9]   S. MASCOLO,
"Smith's principle for Congestion control in ATM High Speed Networks ",
Proc. of IEEE 36th Conference on Decison and Control, Dec. 1997, pp. 4595-4600, S. Diego.

[C8]   S. MASCOLO,
"Backstepping design for controlling Lorenz chaos",
Proc. of IEEE 36th Conference on Decision and Control, 1997, pp. 1500-1501, S. Diego, CA.

[C7]   M. GERLA, D. CAVENDISH, S.MASCOLO,
"ATM Networks: Bandwidth Allocation and Congestion Control",
<u>**Invited paper,**</u> **IEEE Melecon 1996**, Bari, Italy, May 13-16, pp. 27-33.

[C6]   S.MASCOLO, D. CAVENDISH, M. GERLA,
"ATM Rate Based Congestion Control Using a Smith Predictor: an EPRCA Implementation",
Proc. of IEEE Infocom 96, S. Francisco, March 1996, pp. 569-576.
cit. 80

[C5]   D. CAVENDISH, S.MASCOLO,M. GERLA,
"Rate Based Congestion Control for multicast ABR traffic",
Proc. of IEEE Globecom 96, London, November 18-22, 1996, pp. 1114-1118. **Cit. 8**

[C4]   D. CAVENDISH, M. GERLA, S.MASCOLO,
"ATM Rate Based Congestion Control Using a Smith Predictor: Implementation Issues",
First Workshop on ATM traffic Management, IFIP-WATM'95, Paris, Dec. 1995 pp. 289-296. **Cit. 6**

[C3]   M.P. FANTI, B. MAIONE, S. MASCOLO, B. TURCHIANO,
"Control Policies Conciliating Deadlock Avoidance and Flexibility in FMS Resource Allocation",
Proc. EFTA '95, INRIA/IEEE Symposium on Emerging Technologies and Factory Automation, Paris, October, 10-13, 1995, pp. 343-351. Cit. 2

[C2]   M.P. FANTI, B. MAIONE, S. MASCOLO, B. TURCHIANO,
"Deadlock Avoidance Policies for Flexible Production Syustems with Multiple Capacity Resources",
IEE Third Workshop on Discrete Event Systems, August 19-21, 1996, pp. 31-38, Edinburgh, Scotland, UK.

[C1]   M.P. FANTI, B. MAIONE, S. MASCOLO, B. TURCHIANO,
"Low-cost Deadlock Avoidance Policies for Flexible Production Systems",
Proc. of the IASTED Int. Conf: Applied Modelling and Simulation, Lugano (Switzerland), June 20-22, 1994, pp. 219-223

Pubblicazioni su atti di congressi nazionali

[D1]   L. A. GRIECO, S. MASCOLO, AND G. PISCITELLI,
" Robust end-to-end bandwidth estimate in TCP/IP congestion control",