Cédric Ware
Research professor, optical communications

Citizenships: French, Swiss
CV dated: September 8, 2018

Télécom ParisTech, Communications & Electronics dept
46 rue Barrault, 75634 Paris CEDEX 13, France
cedric.ware@telecom-paristech.fr / +33 1 45 81 74 85
`http://perso.telecom-paristech.fr/~ware/`

Education

1996–2003   ***Télécom ParisTech****: one of France's top engineering schools, specialized in Telecommunications*

2003   **Ph. D.** in Electronics & Communications
1998   Engineer's diploma (M. Sc. level) in Telecommunications

1993–1996   ***École Normale Supérieure****: France's top institution of higher learning for researchers and professors*

1996   DEA (M. Sc. level, Ph. D. track) in Lasers, Plasma, Optoelectronics
1996   Licence (B. Sc.) in Computer Science

Professional experience

July 1998–
current
Télécom ParisTech (one of France's top engineer schools, specialized in Telecommunications):
Associate Professor (2007–); Assistant Professor (1998–2007)
HDR Habilitation degree (2013); allows to direct Ph. D. theses independently.

October 2010–
July 2011
Columbia University, Lightwave Research Laboratory: Visiting Research Scientist
→ Cross-layer Optical Networks, Optical Packet Switching

Research & Teaching activities

Research: cross-layer networking, optical switching, coherent optical communications, clock recovery
→ European and national projects, **leader of joint actions**
→ collaborations with **international partners** (incl. U.S., Denmark, Germany, Japan)
→ **Ph. D. advisor**: 6 students graduated, 5 ongoing

Publications: $\simeq$ 70 to date in high-profile journals, international & national conferences
→ **invited & postdeadline papers**; Elec. Lett. **"Letter of the Month"** award (2008)

Teaching: optical communications and networks, optics, semiconductor physics; pushing for more active learning
→ **coordinator** M. Sc. on optical networks on photonic systems (in English)
↪ included in the Erasmus Mundus joint Master degree SMARTNET
→ **coordinator** first-year course on quantum & statistical physics for semiconductors

General skills

Spoken Languages	French: mother tongue; **English: fluent**; German: basic
Programming	**C, C++, Perl, Python** (good); PHP, SQL, Matlab/Octave (fair); Java, OCaml, Verilog (basic)
Typesetting	LaTeX (advanced); Word, OpenOffice (basic to average)
	↪ templates & document classes → presentations, "Libres Savoirs" online courses
Computer systems	Linux (good); Unix: FreeBSD, Solaris, Darwin/MacOS X (fair); Windows (average)
	↪ managed servers, workstations, automated install & configuration

Selected publications

[1]   A. Minakhmetov, C. Ware, and L. Iannone.
TCP Congestion Control in Datacenter Optical Packet Networks on Hybrid Switches.
Journal of Optical Communications and Networking, 10(7):B71–B81, May 2018.

[2]   C. Ware, C. P. Lai, D. Brunina, W. Zhang, A. S. Garg, B. G. Bathula, and K. Bergman.
Cross-layer reconfigurable optical network: Fast failure recovery in testbed for routing algorithms.
In *International Conference on Transparent Optical Networks (ICTON)*, Stockholm, Sweden, June 2011.
Invited conference.

[3]   L. K. Oxenløwe, F. Gómez Agis, C. Ware, S. Kurimura, H. C. H. Mulvad, M. Galili, K. Kitamura, H. Nakajima, J. Ichikawa, D. Erasme, A. T. Clausen, and P. Jeppesen.
640 Gbit/s data transmission and clock recovery using an ultra-fast periodically poled lithium niobate device.
In *Optical Fiber Conference*, number PDP22, San Diego, CA, USA, February 2008.
Postdeadline paper.