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| **(1) Name** | **Sigurd Skogestad** |
| **Born** | 14 August 1955 |
| **Present position** | Professor, Department of Chemical Engineering, NTNU, Trondheim, Norway |
| **Degrees** | Siv.ing (MS) NTNU (1978). PhD California Institute of Technology (1987) |
| **Experience:** |  |
| 1980-1983 | Norsk Hydro: Research Center, Porsgrunn & Oseberg offshore field development, Sandvika |
| 1987-present | Professor, NTNU |
| 1994-1995 | Visiting Professor, University of California at Berkeley |
| 2003-2004 | Visiting Professor, University of California at Santa Barbara |
| 1989-2009 | Head of Department of Chemical Engineering, NTNU |
| 1999-present | Worked on offshore anti-slug control solutions together with ABB, Statoil and Siemens. Results: 3 PhD theses, experimental rig at NTNU, 2 patents, widespread industrial usage. |
| 1999-present | Developed simple IMC-based PID controller tunings (SIMC). Result: SIMC is becoming the industry standard for PID controller tuning (used by most major companies in Norway). |
| 1996-present | Worked on heat-integrated separation sequences. One result: First theoretical and experimental work on Petlyuk/Kaibel (divided-wall) distillation column with adjustable vapor split. |
| 1987-present | **Selected industrial short courses and stays**. DuPont (1987, 1995), Honeywell Phoenix (1997), Saudi Aramco (2004, 2005, 2006), Statoil (2005), Braskem (2009), Petrobras (2010).  Main supervisor of 36 PhD and 142 MSc graduates (from 1987 to 2013) |
| **Present R&D and interests** | Control and optimal design and operation of process systems, with the aim of developing simple yet rigorous methods to solve problems of engineering significance. |
| **Publications** | 206 articles in peer-reviewed journals, 286 papers in international conference proceedings. First author of well-known book “Multivariable feedback control” (Wiley 1996, 2005) with 4842 citations in Google scholar .  h-index: 35(ISI), 52 (Google scholar) |
| **Selected publications** | * I.J. Halvorsen and S. Skogestad, [``Minimum Energy Consumption in Multicomponent Distillation. Part 1-3'',](http://www.nt.ntnu.no/users/skoge/publications/2003/Distillation_energy_Petlyuk_parts1-3) *Ind. Eng. Chem. Res.*, **42** (3), 594-629 (2003). * S. Skogestad, [``Chemical and Energy Process Engineering''](http://www.nt.ntnu.no/users/skoge/book-cep) CRC Press, 450 pages, 2009. * V. Alstad, S. Skogestad and E.S. Hori, [``Optimal measurement combinations as controlled variables'',](http://www.nt.ntnu.no/users/skoge/publications/2009/alstad_extended_nullspace_jpc) *Journal of Process Control*, **19**, 138-148 (2009) * J.J. Downs and S. Skogestad, [``An industrial and academic perspective on plantwide control'',](http://www.nt.ntnu.no/users/skoge/publications/2011/downs_skogestad_journal) *Annual Reviews in Control*, **35**, 99-110 (2011). * M. Panahi and S. Skogestad, [``Economically efficient operation of CO2 capturing process, Part I: Self-optimizing'',](http://www.nt.ntnu.no/users/skoge/publications/2011/panahi-co2-part1-cep) *Chemical Eng. & Processing*, **50**, 247-253 (2011). * J. Jäschke and S. Skogestad, [``NCO tracking and self-optimizing control in the context of real-time optimization'',](http://www.nt.ntnu.no/users/skoge/publications/2011/jaschke_soc-nco_jpc) *Journal of Process Control*, **21** (10), 1407-1416 (2011). * M. Panahi and S. Skogestad, [``Economically efficient operation of CO2 capturing process, Part II: Control'',](http://www.nt.ntnu.no/users/skoge/publications/2012/panahi-co2-part2-cep) *Chemical Engineering and Processing*, **52**, 112-124 (2012) * R. Yelchuru and S. Skogestad, [``Quantitative methods for regulatory layer selection'',](http://www.nt.ntnu.no/users/skoge/publications/2013/yelchuru-regulatory-layer) *Journal of Process Control*, **23** 58-69 (2013). * Sigurd Skogestad and Chriss Grimholt [''The SIMC Method for Smooth PID Controller Tuning'',](http://www.nt.ntnu.no/users/skoge/publications/2012/skogestad-improved-simc-pid) Chapter 5 in *PID Control in the Third Millennium*, Springer-Verlag, 2012. * Sigurd Skogestad [''Plantwide Control'',](http://www.nt.ntnu.no/users/skoge/publications/2012/skogestad-ullmann-plantwide-control)  Part of *Ullmann's Encyclopedia of Industrial Chemistry*. Wiley, Weinheim, 2012. |

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