

## **Professor Torben B. Pedersen, Ph.D., Dept. of Computer Science, Aalborg University**

**Overview:** Torben Bach Pedersen (TBP), born 1969. Ph.D. Computer Science AAU 2000. M.Sc. computer science and mathematics, Aarhus University 1994. Since 2008 full professor at AAU.

**Research Management:** Research leader of the Database and Programming Technologies group (approx. 25 staff members) and director of the Center for Data-Intensive Systems (Daisy); PI, co-PI and senior scientist in 12 research projects, including WP manager in two FP6+FP7 STREP projects; Project grants of more than 35 million DKK to AAU, total project budgets more than 170 million DKK; Collaboration with more than 25 companies and organizations, resulting in contributions to several new products.

**Scientific service:** Several editorial boards of international journals; PC Chair and General Chair for 4 international conferences (SSTD, DaWaK, DOLAP); More than 50 conference PCs, including the most prestigious.

**Research and publications:** Topics: business intelligence, data warehousing, on-line analytical processing, multidimensional databases, data integration, and data mining, with a focus on advanced application areas such as location-based services and web/real-time data; More than 100 peer-reviewed publications; More than 1800 citations according to Google Scholar, Google Scholar based h-index (and h13-index) is currently 23; A European and a US patent, with an additional patent pending; Young Researchers Award from ECIU 2004; More than 20 invited talks, including several keynotes.

**Training of researchers:** Directs Ph.D. program in Computer Science and Engineering (enrollment 50 Ph.D. students) since 2007; Graduated 7 Ph.D. students, now supervising another 5; Supervised 2 post docs and 25 Masters students.

### **Employment:**

- Professor, Department of Computer Science, Aalborg University, 2008–
- Associate Professor, Department of Computer Science, Aalborg University, 2000–2007
- Industrial Ph.D. Fellow Kommunedata, 1997-2000
- Database specialist, Kommunedata, 1994-1997

### **Publications:**

Selected recent publications most relevant for the lectures

*J. M. Perez, R. Berlanga Llavori, M. J. Aramburu, T. B. Pedersen:* Integrating Data Warehouses with Web Data: A Survey. IEEE Transactions on Knowledge and Data Engineering 20(7): 940-955 (2008)

*T. B. Pedersen, D. Pedersen, J. Pedersen:* Integrating XML data in the TARGIT OLAP system. International Journal of Web Engineering Technologies 4(4): 495-533 (2008)

*J M. Pérez-Martínez, R. Berlanga Llavori, M. J. Aramburu Cabo, T. B. Pedersen:* Contextualizing data warehouses with documents. Decision Support Systems 45(1): 77-94 (2008)

*V. Nebot, R. Berlanga Llavori, J. M. Pérez-Martínez, M. J. Aramburu, T. B. Pedersen:* Multidimensional Integrated Ontologies: A Framework for Designing Semantic Data Warehouses. Journal of Data Semantics 13: 1-36 (2009)

*C.S. Jensen, T. B. Pedersen, C. Thomsen:* Multidimensional Databases and Data Warehousing Morgan & Claypool Publishers 2010

*T. B. Pedersen:* Research challenges for cloud intelligence: keynote talk. Workshop on Business Intelligence and the Web, 2010

*X. Liu, C. Thomsen, T. B. Pedersen:* 3XL: Supporting efficient operations on very large OWL Lite triple-stores. Information Systems 36(4): 765-781 (2011)

*Full list of publications (internal):* [http://vbn.aau.dk/research/\(7180\)|publications](http://vbn.aau.dk/research/(7180)|publications)

*Full list of publications (DBLP):* [http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/p/Pedersen:Torben\\_Bach.html](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/p/Pedersen:Torben_Bach.html)