

Book Editor:

Coeditor of *Neural Information Processing Systems* (NIPS 13), 2000.

Refereed Journal Articles:

- Schwaighofer, A., Tresp, V., Mayer, P., Scheel, A. K., Krause, A., Mesecke-von Rheinbaben, I., Rost, H., Metzger, G., (2003). Prediction of Rheumatoid Joint Inflammation Based on Laser Imaging Using Linear and Kernel-Based Classifiers. *IEEE Transactions on Biomedical Engineering*, 50(3)
- Scheel, A. K., Mesecke-von Rheinbaben, I., Krause, A., Metzger, G., Rost, H., Mayer, P., Tresp, V., Müller, G. A., Reuss-Borst, M. Schwaighofer, A. (2002). A preliminary clinical study with a novel laser-based imaging technique in rheumatoid arthritis. *Arthritis and Rheumatism*, 46(5).
- Briegel, T., Tresp, V. (2002). A Nonlinear State Space Model for the Blood Glucose Metabolism of a Diabetic. *at Automatisierungstechnik*, Vol. 50.
- Tresp, V. (2001). Scaling Kernel-Based Systems to Large Data Sets. *Data Mining and Knowledge Discovery*, Vol. 5.
- Tresp, V. (2000). The Bayesian Committee Machine. *Neural Computation*, Vol. 12.
- Tresp, V., Briegel, T., Moody, J. (1999). Neural-Network Models for the Blood Glucose Metabolism of a Diabetic. *IEEE Transactions on Neural Networks*, Vol. 10.
- Haft, M., Hofmann, R., Tresp, V. (1999). Model-Independent Mean Field Theory as a Local Method for Approximate Propagation of Information. *Network: Computation in Neural Systems*, Vol. 10.
- Ormoneit, D., Tresp, V. (1998). Averaging, Maximum Penalized Likelihood and Bayesian Estimation for Improving Gaussian Mixture Probability Density Estimates. *IEEE Transactions on Neural Networks*, Vol. 9.
- Tresp, V., Hofmann, R. (1998). Nonlinear Time-Series Prediction with Missing and Noisy Data. *Neural Computation*, Vol. 10.
- Taniguchi, M., Tresp, V. (1997). Averaging Regularized Estimators. *Neural Computation*, Vol. 9.
- Tresp, V., Hollatz, J., Ahmad, S. (1997). Representing Probabilistic Rules with Networks of Gaussian Basis Functions. *Machine Learning*, Vol. 27.
- Tresp, V. (1995). Die besonderen Eigenschaften Neuronaler Netze bei der Approximation von Funktionen. *Künstliche Intelligenz*, Nr. 4.
- Tresp, V. (1994). Beitrag zum Thema *Künstliche Neuronale Netze als mathematische Strukturen*, in K. Möller und G. Paaß (Eds.), *Künstliche Neuronale Netze: eine Bestandsaufnahme*. *Künstliche Intelligenz*, Nr. 4.
- Preuß, H.-P., Tresp, V. (1994). Neuro-Fuzzy. *ATP: Automatisierungstechnische Praxis*, Nr. 5.

- Tresp, V., Snell, R., Gmitro, A. F. (1994). Videographic Tomography - Part II: Reconstruction with Fan-Beam Projection Data. *IEEE Trans. Med. Imag.*, Vol. 13., Nr. 1.
- Gmitro, A., F., Tresp, V., Gindi G. R. (1990). Videographic Tomography - Part I: Reconstruction with Parallel-Beam Projection Data. *IEEE Transactions on Medical Imaging*, Vol. 9.
- Pottel, R., Asselborn, E., Eck, E., Tresp, V. (1989). Dielectric Relaxation Rate and Static Dielectric Permittivity of Water and Aqueous Solutions at High Pressures. *Ber. Bunsenges. Phys. Chem.*, Vol. 93.

Book Chapters:

- Tresp, V., Hofmann, R. (2001). Nonlinear Time-Series Prediction with Missing and Noisy Data. In Jordan, M. I. and Sejnowski, T. J. (Eds.), *graphical models: foundations of neural computation*, MIT Press.
- Tresp, V. (2001). Committee Machines. In Hu, Y. H., Hwang, J.-N. (Eds.), *Handbook on Neural Network Signal Processing*, CRC Press (in Druck).
- Preuß, H.-P., Tresp, V. (1994). Neuro-Fuzzy. In Hafner, S. (Eds.), R. Oldenbourg Verlag (identisch zu gleichnamiger Veröffentlichung in *ATP: Automatisierungstechnische Praxis*).
- Tresp, V., Moody, J., Delong, W.-R. (1994). Neural Modeling of Physiological Processes. In Hanson S. J., Petsche, T., Kearns, M., Rivest, R. L. (Eds.), *Computational Learning Theory and Natural Learning Systems 2*, MIT Press.
- Hofmann, R., Röscheisen, M., Tresp., V. (1994). Incorporating Domain-Specific Prior Knowledge into Networks of Locally-Tuned Units. In Hanson S. J., Petsche, T., Kearns, M., Rivest, R. L. (Eds.), *Computational Learning Theory and Natural Learning Systems 2*, MIT Press.
- Neuneier, R., Tresp, V. (1994). Radiale Basisfunktionen, Dichteschätzungen und Neuro-Fuzzy. In Rehkugler, H., Zimmermann H.-G. (Eds.), *Neuronale Netze in der Ökonomie*, Verlag Franz Vahlen.

Refereed Conference Publications:

- Xu, Z., Yu, K., Tresp. V., Xu, X., Wang, J. (2003). Representative Sampling for Text Classification using Support Vector Machines. ECIR'2003 European Conference on Information Retrieval Research.
- Xu, Z., Xu, X., Yu, K., Tresp. V. (2003). A Hybrid Relevance-Feedback Approach to Text Retrieval. ECIR'2003 European Conference on Information Retrieval Research.
- Schwaighofer, A., Tresp, V. (2003). Transductive and Inductive Methods for Approximate Gaussian process Regression. In Becker, S., Thrun, S., Obermayer, K. (Hrsg.), *Advances in Neural Information Processing Systems 15*, MIT Press.

- Schwaighofer, A., Tresp, V., Mayer, P., Scheel, A. K., Krause, A., Mesecke-von Rheinbaben, I., Rost, H., Metzger, G., (2003). The RA Scanner: Prediction of Rheumatoid Joint Inflammation Based on Laser Imaging. In Becker, S., Thrun, S., Obermayer, K. (Hrsg.), *Advances in Neural Information Processing Systems 15*, MIT Press.
- Yu, K., Xu, X., Schwaighofer, A., Kriegel, H. P., Tresp, V. (2002). A Likelihood-Based Approach to Data Selection for Collaborative Filtering, *11th International Conference on Information and Knowledge Management (CIKM'02)*.
- Yu, K., Xu, X., Schwaighofer, A., Tresp, V. Kriegel, H.-P. (2002). Removing Redundancy and Inconsistency in Memory-based Collaborative Filtering. *Conference on Information and Knowledge Management - CIKM 2002*.
- Tresp, V., Schwaighofer, A. (2001). Scalable Kernel Systems. In Dorffner, G., Bischof, H., Hornik, K. (Eds.), *Artificial Neural Networks - ICANN 2001, ICANN 2001*.
- Schwaighofer, A., Tresp, V. (2001). The Bayesian Committee Support Vector Machine. In Dorffner, G., Bischof, H., Hornik, K. (Eds.), *Artificial Neural Networks - ICANN 2001, ICANN 2001*.
- Horn, J., Birkhölzer, T., Hogl, O., Pellegrino, M., Scheiterer, R., Schmidt, K.-U., Tresp, V. (2001). Learning Acquisition and Automated Generation of Bayesian Networks for a Medical Dialogue and Advisory System. *Artificial Intelligence in Medicine, AIME-2001*.
- Tresp, V. (2001). Mixtures of Gaussian Processes. In Leen, T. K., Diettrich, T. G., Tresp, V. (Eds.), *Advances in Neural Information Processing Systems 13*, MIT Press.
- Tresp, V. (2000). The Generalized Bayesian Committee Machine. *Proceedings of the Sixth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, KDD-2000*.
- Hollmén, J., Tresp, V. (2000). A Hidden Markov Model for Metric and Event-Based Data. *European Signal Processing Conference, EUSIPCO - 2000*.
- Hollmén, J., Tresp, V., Simula, O. (2000). A Learning Vector Quantization Algorithm for Probabilistic Models. *European Signal Processing Conference, EUSIPCO - 2000*.
- Briegel, T., Tresp, V. (2000). Robust Neural Network Regression for Offline and Online Learning. In Solla, S. A., Leen, T. K., Müller, K.-R. (Eds.), *Advances in Neural Information Processing Systems 12*, MIT Press.
- Steck, H., Tresp, V. (1999). Bayesian Belief Networks for Data Mining. In Proc. 2. Workshop *Data Mining und Data Warehousing als Grundlage moderner entscheidungsunterstützender Systeme*, (DMDW99), LWA99 Sammelband, Univ. Magdeburg.
- Tresp, V., Haft M., Hofmann R. (1999). Mixture Approximations to Bayesian Networks. In Laskey, K. B., Prade, H., (Eds.), *Uncertainty in Artificial Intelligence, Proceedings of the Fifteenth Conference*, Morgan Kaufmann Publishers.

- Birkhölzer, T., Haft, M., Hofmann, R., Horn, J., Pellegrino, M., Tresp, V. (1999). Intelligent Communication in Medical Care. In *Joint European Conference on Artificial Intelligence in Medicine and Medical Decision Making (AIMDM 99)*.
- Schmidt, K.-U., Haft, M., Hofmann, R., Horn, J., Pellegrino, M., Tresp, V. (1999). Intelligent Dialogues in Home Health Care. In *20th Annual Conference of the International Society for Clinical Biostatistics (ISCB 99)*.
- Briegel, T., Tresp, V. (1999). Fisher Scoring and a Mixture of Modes Approach for Approximate Inference and Learning in Nonlinear State Space Models. In Kearns, M. S., Solla, S. A., Cohn, D. A., (Eds.), *Advances in Neural Information Processing Systems 11*, MIT Press.
- Hollmén, J., Tresp, V., Simula, O. (1999). A Self-Organizing Map for Clustering Probabilistic Models. *Proceedings of the Ninth International Conference on Artificial Neural Networks, ICANN 99*.
- Hollmén, J., Tresp, V. (1999). Call-based Fraud Detection in Mobile Communication Networks using a Hierarchical Regime-Switching Model. In Kearns, M. S., Solla, S. A., Cohn, D. A., (Eds.), *Advances in Neural Information Processing Systems 11*, MIT Press.
- Haft, M., Hofmann, R., Tresp, V. (1999). Mean Field Inference in a General Probabilistic Setting. In Heckerman, D. Whittaker, J. (Eds.), *Artificial Intelligence and Statistics 99*.
- Briegel, T., Tresp, V. (1998). A Solution for Missing Data in Recurrent Neural Networks with an Application to Blood Glucose Prediction. In Jordan, M. I., Kearns, M. S., Solla, S. A., (Eds.), *Advances in Neural Information Processing Systems 10*, MIT Press.
- Hofmann, R., Tresp, V. (1998). Nonlinear Markov Networks for Continuous Variables. In Jordan, M. I., Kearns, M. S., Solla, S. A., (Eds.), *Advances in Neural Information Processing Systems 10*, MIT Press.
- Taniguchi, M., Haft, M., Hollmén J., Tresp, V. (1998). Fraud Detection in Communications Networks Using Neural and Probabilistic Methods. *Proceedings of the 1998 IEEE International Conference in Acoustics, Speech and Signal Processing (ICASSP'98)*.
- Briegel, T., Tresp, V. (1998). A Neuro-Fuzzy Approach to Feedforward Modeling of Nonlinear Time Series. In Brauer, W. (Eds.), *Fuzzy-Neuro Systems '98 - Computational Intelligence*, Infix, Sankt Augustin, Germany.
- Hofmann, R., Tresp, V. (1998). Fuzzy Causal Networks. In Brauer, W. (Eds.), *Fuzzy-Neuro Systems '98 - Computational Intelligence*, Infix, Sankt Augustin, Germany.
- Taniguchi, M., Tresp, V. (1997). Combining Regularized Neural Networks. *Proceedings of the International Conference on Artificial Neural Networks, ICANN 97*.
- Tresp, V., Neuneier, R., Zimmermann, H. G. (1997). Early Brain Damage. In Mozer, M., Jordan, M. I., Petsche, T. (Eds.), *Advances in Neural Information Processing Systems 9*, MIT Press.

- Ormonet, D., Tresp, V. (1996). Improved Gaussian Mixture Density Estimates Using Bayesian Penalty Terms und Network Averaging. In Touretzky, D. S., Mozer, M. C., Hasselmo, M. E. (Eds.), *Advances in Neural Information Processing Systems 8*, MIT Press.
- Hofmann, R., Tresp, V. (1996). Discovering Structure in Continuous Variables Using Bayesian Networks. In Touretzky, D. S., Mozer, M. C., Hasselmo, M. E. (Eds.), *Advances in Neural Information Processing Systems 8*, MIT Press.
- Taniguchi, M., Tresp, V. (1995). Variance-based Combination of Estimators trained by Bootstrap Replicates. *Proceedings of the 1995 International Symposium on Artificial Neural Networks (Hsinchu, Taiwan)*.
- Tresp, V., Hofmann, R. (1995). Missing and Noisy Data in Nonlinear Time-Series Prediction. In Girosi, F., Makhoul, J., Manolakos E., Wilson E. (Eds.), *Neural Networks for Signal Processing 5*, IEEE catalog number: 95TH8094.
- Tresp, V., Neuneier, R., Ahmad, S. (1995). Efficient Methods for Dealing with Missing Data in Supervised Learning. In Tesauro, G., Touretzky, D. S., Leen T. K. (Eds.), *Advances in Neural Information Processing Systems 7*, MIT Press.
- Tresp, V., Taniguchi, M. (1995). Combining Estimators Using Non-Constant Weighting Functions, In Tesauro, G., Touretzky, D. S., Leen T. K. (Eds.), *Advances in Neural Information Processing Systems 7*, MIT Press.
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- Tresp, V., Hollatz, J., Ahmad, S. (1993). Network Structuring and Training Using Rule-based Knowledge. In Giles, C. L., Hanson S. J., Cowan J. D. (Eds.), *Advances in Neural Information Processing Systems 5*, Morgan Kaufman.
- Ahmad, S., Tresp, V. (1993). Some Solutions to the Missing Feature Problem in Vision, In Giles, C. L., Hanson S. J., Cowan J. D. (Eds.), *Advances in Neural Information Processing Systems 5*, Morgan Kaufman.
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- Hollatz, J., Tresp, V. (1992). Integrating Rule-Based Knowledge into Neural Computing. In Fuchs, S., Hoffmann, R. (Eds.), *Mustererkennung 1992*.
- Schlang, M., Tresp, V., Abraham-Fuchs, K., Härer, W., Weismüller, P. (1992). Neuronale Netze zur Segmentierung und Clusterung von biomagnetischen Signalen. M. Schlang, V. Tresp, In Fuchs, S., Hoffmann, R. (Eds.), *Mustererkennung 1992*.
- Hollatz, J., Tresp, V. (1992). A Rule-based Network Architecture. In Aleksander, I., Taylor, J. (Eds.), *Artificial Neural Networks II (ICANN 1992)*, Elsevier.

- Tresp, V., Leuthäusser I., Schlang, M., Neuneier, R., Abraham-Fuchs, K., Härer, W. (1992). The Neural Impulse Response Filter, In Aleksander, I., Taylor, J., (Eds.), *Artificial Neural Networks II*, Elsevier.
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- Tresp, V. (1991). A Neural Network Approach for Three-Dimensional Object Recognition. In Lippmann, R., Moody, J., Touretzky, D. S., (Eds.) *Advances in Neural Information Processing Systems 3*, Morgan Kaufmann.
- Tresp, V. (1991). A Neural Architecture for 2-D and 3-D Vision. In Radig, B. (Eds.), *Mustererkennung 1991*, Springer-Verlag.
- Tresp, V., Gindi, G. (1990). Invariant Object Recognition by Inexact Subgraph Matching with Applications in Industrial Part Recognition. *Proceedings of the International Neural Network Conference*, Paris, France.
- Gmitro, A. F., Tresp, V., Chen, Y., Gindi, G. R. (1989). Optical Computer for the Video-Rate Reconstruction of Medical Images. *SPIE Medical Imaging III*, Newport Beach, CA.
- Tresp, V., Gerogiannis, D., Gindi, G. R., Gmitro, A. F. (1986). CT Videography. *Proceedings of the Twelfth Annual Northeast Bioengineering Conference*, Vol. 12.

Technical Reports:

- Briegel, T., Tresp, V. (2000). Dynamic Neural Regression Models. *Discussion Paper 181 des Instituts für Statistik der Ludwig-Maximilians-Universität München*, <http://www.stat.uni-muenchen.de/sfb386/publikation.html>.

Conference Presentations (without publication):

- Horn, J., Birkhölzer, T., Hogl, O., Pellegrino, M., Scheiterer, R., Schmidt, K.-U., Tresp, V. (2001). Medical Knowledge Acquisition and Automated Generation of Bayesian Networks. *Bayesian Models in Medicine*, Workshop in Cascais, Portugal.
- Tresp, V. (2001). Scalable Kernel Systems. *Learning Workshop*, Snowbird, Utah.
- Tresp, V. (2001). Kernel-Based Systems for Large Data Sets. *25. Jahrestagung der Gesellschaft für Klassifikation e.V.*, München.

- Tresp, V. (2000). The Generalized Bayesian Committee Machine. *Learning Workshop*, Snowbird, Utah.
- Steck, H., Tresp, V. (2000). Structural Learning in Bayesian Networks and Model Uncertainty: A Search Strategy. HSSS Workshop on Data Analysis with Graphical Models, München.
- Hofmann, R., Steck, H., Haft, M., Tresp, V. (2000). Graphical Models for Industrial Datamining. HSSS Workshop on Data Analysis with Graphical Models, München.
- Tresp, V. (1999). A Bayesian Committee Machine. *Workshop on Semi- and Nonparametric Modelling: Theory and Practice*, München.
- Briegel, T., Tresp, V. (1999). Kernel Based Nonlinear State Space Models. *Learning Workshop*, Snowbird, Utah.
- Briegel, T., Tresp, V. (1998). A Monte Carlo Generalized EM-Type Algorithm for State and Parameter Estimation in Nonlinear State Space Models. *Machines that Learn*, Snowbird, Utah.
- Hofmann, R., Tresp, V. (1997). Markov Blanket Networks. *Machines that Learn*, Snowbird, Utah.
- Tresp, V. (1996). Early Brain Damage. *Machines that Learn*, Snowbird, Utah.
- Tresp, V. (1994). A Versatile Gaussian Learning Machine. *Neural Networks for Computing*, Snowbird, Utah.
- Tresp, V. (1994). Combining Multiple Knowledge Bases: a Probabilistic Approach, In Kunze, J., Stoyan, H. (Eds.), *KI-94 Workshops*, Gesellschaft für Informatik e.V..
- Tresp, V., Ahmad, S., Neuneier, R. (1993). Dealing with Uncertainty in the Inputs of Neural Networks. *Neural Networks for Computing*, Snowbird, Utah.
- Hollatz, J., Tresp, V. (1992). Structuring Networks Using Uncertain Rule-based Knowledge. *Neural Networks for Computing*, Snowbird, Utah.
- Höhfeld, M., Hollatz, J., Miesbach, S., Obradovic, D., Schürmann, B., Sterzing, V., Taniguchi, M., Tresp, V. (1992). Advanced Neural Control for Industrial Applications. In v. d. Meer, M. (Eds.), *Bericht zum Statusseminar des BMFT Neuroinformatik*.
- Hergert, F., Kämmerer, B., Schürmann, B., Tresp, V., Weick, M., Zimmermann, H. G. (1990). Artificial Neural Networks: Models, Implementations and Selected Applications. In Schwärtzel, H., Mizin, I., (Eds.), *Advanced Information Processing*, Springer Verlag.
- Hollatz, J., Kämmerer, B., Knerr, S., Leuthäusser, I., Schürmann, B., Tresp, V. (1990). 2-D Recognition of Industrial Workpieces with Feedforward and Dynamically Stable Recurrent Networks. *Neural Networks for Computing*, Snowbird, Utah.

Invited Presentations at Workshops and Institutions:

- Neural Information Processing Systems*, workshop (2001). Scaling Kernel-Based Systems to Large Data Sets.

Microsoft, research seminar (2001). Scaling Kernel-Based Systems to Large Data Sets.

Brown University (2000). The Bayesian Committee Machine.

Max-Planck-Institut für Hirnforschung, Frankfurt, (2000). Correlation, Dependencies and Causality.

New Perspectives in the Theory of Neural Nets, Workshop in Schloss St. Martin, Graz (2000). The Generalized Bayesian Committee Machine.

Neural Information Processing Systems, Workshop (1998). Theories of Unsupervised Learning and Missing Values.

Structural Learning in Graphical Models, Workshop, Tirano (1998). Fisher Scoring and a Mixture of Modes Approach for Approximate Inference and Learning in Nonlinear State Space Models.

Neural Information Processing Systems, Workshop, (1997). Discovering Structure in Continuous Variables Using Graphical Models.

GMD FIRST, Berlin (1997). A Solution for Missing Data in Recurrent Neural Networks With an Application to Blood Glucose Prediction.

Technische Universität Berlin, (1997). Discovering Structure in Continuous Variables Using Graphical Models.

Microsoft Research, Seattle, (1997). Neural and Bayesian Networks at Siemens.

Oregon Graduate Institute, (1997). Averaging Regularized Estimator.

Universität Frankfurt, Institut für sozial-ökonomische Forschung (1996). Modellierung von komplexen Systemen in industriellen Prozessen.

Neural Information Processing Systems, Workshop, (1995). Missing Data: A Fundamental Problem in Learning.

Herbstschule Konnektionismus, Münster, Abendvortrag (1995). Neuronale Netze: Perspektiven, Produkte und Prinzipien.

Neural Information Processing Systems, Workshop, (1994). Blood Glucose Prediction.

Neural Information Processing Systems, Workshop, (1994). Training Mixtures of Gaussians with Deficient Data.

University of Massachusetts at Amherst, Computer Science Department (1994). The “real” World: Uncertainty, Missing Information, Disagreement, Misunderstanding and Confusion.

Bell Laboratories, Murray Hill, Statistical Analysis Research Group (1994). Selbes Thema.

Bell Laboratories, Holmdel, Pattern Recognition Group (1994). Selbes Thema.

NEC Research Institute, Princeton (1994). Selbes Thema.

Massachusetts Institute of Technologies, Cambridge, Center for Biological and Computational Learning (1994). Selbes Thema.

Neural Information Processing Systems, Workshop, (1993). Missing Data During Training and Recall.

Universität Bonn, Informatikseminar (1993). Neuronale Modellbildung und Prädiktion mit unvollständigen Informationen.

Neural Information Processing Systems, Workshop, (1992). Neural Networks for the Prediction and Control of the Blood Glucose Concentration of a Diabetic.

Xerox Parc, (1991). Neural Networks for Physiological Modeling.

Yale University, Computer Science Seminar (1990). Neural Networks for Object Recognition.

Neural Information Processing Systems, Workshop, (1990). Neural Networks for Vision.