Curriculum Vitae Prof. Ex. Ordinario Sandro Ridella

Percorso universitario

Sandro Ridella è nato a Genova e si è laureato con 110 e lode e dignità di stampa in Ingegneria Elettronica nel 1966 presso l'Università di Genova.

Nell' Istituto di Elettrotecnica dell'Università di Genova ha iniziato subito dopo la laurea la sua attività didattica come assistente volontario e successivamente come assistente incaricato e infine come assistente ordinario di Teoria delle Reti Elettriche: della stessa materia è diventato professore incaricato nel 1969.

Nel 1976 è stato chiamato dalla Facoltà di Ingegneria dell'Università di Genova come professore straordinario di Complementi di Elettrotecnica, trasferendosi poi sulla cattedra di Circuiti e Algoritmi per il Trattamento dei Segnali che ha ricoperto come professore a tempo pieno fino al collocamento a riposo nel Novembre 2013.

Attività Didattica

Gli insegnamenti tenuti dal Prof. Ridella nel corso di studi di Ingegneria Elettronica sono:

- Teoria delle Reti elettriche
- Complementi di Elettrotecnica
- Elettrotecnica
- Circuiti e Algoritmi per il Trattamento di Segnali
- Calcolatori Paralleli
- Apprendimento Induttivo 1 e 2
- Tecniche di Ottimizzazione 1
- Statistica e Ottimizzazione 1
- Algoritmi e Strategie per il Digital Entertainment
- Multimedia Digital Entertainment
- Applied Mathematical Modeling and Statistics
- Computational Intelligence

Per il corso di specializzazione in Medicina Nucleare presso la Facoltà di Medicina Università degli Studi di Genova ha tenuto il corso di Matematica.

Attività scientifica

I suoi interessi di ricerca principali, che lo hanno portato negli anni a produrre 2 brevetti e più di 400 lavori scientifici, di cui 250 su qualificate riviste internazionali, hanno riguardato diversi settori.

I lavori iniziali trattano problemi legati ai circuiti a parametri distribuiti e i problemi legati alla transizione dai campi elettromagnetici ai circuiti. Per quanto riguarda i componenti elettronici ha indagato i semiconduttori atti a realizzare diodi a onda di ricombinazione per produrre oscillatori a microonde.

Per quanto riguarda le misure elettroniche ha sviluppato teoria e algoritmi per misure computerizzate a microonde su componenti attivi e passive e su campioni biologici.

Una ricerca multidisciplinare ha riguardato la modellistica della dinamica dei globuli bianchi , in particolare dei granulociti.

Multidisciplinare è stata anche la ricerca sulla interazione fra campi elettromagnetici e materiali biologici

con l'obbiettivo di stabilire sia una eventuale pericolosità sia possibili applicazioni terapeutiche.

Nell'ambito di questa ricerca ha investigato i fenomeni di ordine/disordine e di caos.

La complessità delle elaborazioni necessarie per le ricerche descritte ha portato a sviluppare algoritmi

per il calcolo parallelo investigandone la teoria e le prestazioni.

L' attività di ricerca relativa alle reti neurali ha portato ad algoritmi per l'ottimizzazione, l'inizializzazione e l'addestramento sia per reti supervisionate che non supervisionate.

Ha anche proposto schemi realizzativi hardware di reti neurali sia analogici che digitali. Gli studi sulle reti neurali sono confluite nelle ricerche riguardanti il machine learning. In questo settore ha sviluppato algoritmi per lo studio della qualità dell'apprendimento in particolare della generalizzazione (ossia delle capacità induttive dei processi di learning), della model selection e della stabilità.

Per portare avanti questa ricerca ha sviluppato studi sulle proprietà statistiche del learning.

Infine ha sviluppato algoritmi per realizzare machine learning su calcolatori quantistici.

Compiti organizzativi e incarichi istituzionali

È stato Direttore del Laboratorio per i Circuiti Elettronici successivamente Istituto per i Circuiti Elettronici del CNR.

Ha proposto la costituzione dell'Area di Ricerca del CNR a Genova di cui è stato il primo Direttore.

È stato presidente del Consiglio Scientifico dell'Istituto per i Circuiti Elettronici.

È stato membro della Commissione Generale per l'Informatica del CNR.

Come decano del Dipartimento Ingegneria Biofisica Elettronica ha svolto le funzioni di Direttore in attesa della elezione dello stesso. È stato nominato Direttore del DYNATECH e successivamente del DITEN nel periodo di transizione nella costituzione dei nuovi dipartimenti secondo il nuovo statuto dell'Università degli Studi di Genova.

Ha partecipato a numerosi progetti di ricerca sia italiani che europei.

È stato membro di commissione rettorale dell'Università degli Studi di Genova relativa all'adeguamento ai criteri nazionali della divisione delle risorse degli organi dell'Ateneo.

Pubblicazioni

[1] Oneto, L., Ghio, A., Ridella, S., Anguita, D.;Fully Empirical and Data-Dependent Stability-Based Bounds;2015;IEEE Transactions on Cybernetics

[2] Oneto, L., Ghio, A., Ridella, S., Anguita, D.;Global Rademacher Complexity Bounds: From Slow to Fast Convergence Rates;2015;Neural Processing Letters

[3] Oneto, L., Ghio, A., Ridella, S., Anguita, D.;Local Rademacher Complexity: Sharper risk bounds with and without unlabeled samples;2015;Neural Networks

[4] Oneto, L., Ghio, A., Ridella, S., Anguita, D.;Learning Resource-Aware Classifiers for Mobile Devices: From Regularization to Energy Efficiency;2015;Neurocomputing

[5] Oneto, L., Ghio, A., Ridella, S., Ortiz, J.L.R., Anguita, D.;Out-of-sample error estimation: The blessing of high dimensionality;2015;IEEE International Conference on Data Mining Workshops, ICDMW

[6] Anguita, D., Ghio, A., Oneto, L., Ridella, S.;A deep connection between the vapnik-chervonenkis entropy and the rademacher complexity;2014;IEEE Transactions on Neural Networks and Learning Systems

[7] Oneto, L., Ghio, A., Ridella, S., Anguita, D.;Fully Empirical and Data-Dependent Stability-Based Bounds;2014;IEEE Transactions on Cybernetics

[8] Anguita, D., Ghio, A., Oneto, L., Ridella, S.;Unlabeled patterns to tighten Rademacher complexity error bounds for kernel classifiers;2014;Pattern Recognition Letters

[9] Anguita, D., Ghio, A., Oneto, L., Ridella, S.;Smartphone battery saving by bit-based hypothesis spaces and local Rademacher Complexities;2014;Proceedings of the International Joint Conference on Neural Networks

[10] Anguita, D., Ghio, A., Oneto, L., Ridella, S.;A support vector machine classifier from a bit-constrained, sparse and localized hypothesis space;2013;Proceedings of the International Joint Conference on Neural Networks

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[13] Anguita, D., Ghio, A., Oneto, L., Reyes-Ortiz, J.L., Ridella, S.;A novel procedure for training L1-L2 support vector machine classifiers;2013;Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)

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[15] Anguita, D., Ghio, A., Oneto, L., Ridella, S.;In-sample and out-of-sample model selection and error estimation for support vector machines;2012;IEEE Transactions on Neural Networks and Learning Systems

[16] Anguita, D., Ghio, A., Oneto, L., Ridella, S.;In-sample model selection for trimmed hinge loss support vector machine;2012;Neural Processing Letters

[17] Oneto, L., Anguita, D., Ghio, A., Ridella, S.;Rademacher complexity and structural risk minimization: An application to human gene expression datasets;2012;Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)

[18] Ghio, A., Anguita, D., Oneto, L., Ridella, S., Schatten, C.;Nested sequential minimal optimization for support vector machines;2012;Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)

[19] Decherchi, S., Parodi, M., Ridella, S.;Learning the mean: A neural network approach;2012;Neurocomputing

[20] Anguita, D., Ghio, A., Oneto, L., Ridella, S.;The impact of unlabeled patterns in Rademacher Complexity theory for kernel classifiers;2011;Advances in Neural Information Processing Systems 24: 25th Annual Conference on Neural Information Processing Systems 2011, NIPS 2011

[21] Anguita, D., Ghio, A., Oneto, L., Ridella, S.;In-sample model selection for Support Vector Machines;2011;Proceedings of the International Joint Conference on Neural Networks

[22] Anguita, D., Ghio, A., Oneto, L., Ridella, S.;Selecting the hypothesis space for improving the generalization ability of support vector machines;2011;Proceedings of the International Joint Conference on Neural Networks

[23] Anguita, D., Ghelardoni, L., Ghio, A., Ridella, S.;Test error bounds for classifiers: A survey of old and new results;2011;IEEE SSCI 2011 - Symposium Series on Computational Intelligence - FOCI 2011: 2011 IEEE Symposium on Foundations of Computational Intelligence

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[26] Decherchi, S., Parodi, M., Ridella, S.;A neural model approach for regularization in the mean estimation case;2010;Proceedings of the International Joint Conference on Neural Networks

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[36] Gastaldo, P., Ridella, S., Zunino, R.;Prospects of quantum-classical optimization for digital design;2006;Applied Mathematics and Computation
[37] Anguita, D., Ridella, S., Rivieccio, F.;K-fold generalization capability assessment for support vector classifiers;2005;Proceedings of the International Joint Conference on Neural Networks
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[50] Anguita, D., Boni, A., Ridella, S.;Digital kernel perceptron;2002;Electronics Letters
[51] Anguita, D., Ridella, S., Rivieccio, F., Zunino, R.;Automatic hyperparameter tuning for support vector machines;2002;Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)
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[77] Ridella, S., Rovetta, S., Zunino, R.;Adaptive internal representation in circular back-propagation networks;1995;Neural Computing & Applications
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