

CURRICULUM VITAE SINTETICO

della Prof. ssa Silvia Romanelli (aggiornato a febbraio 2020)

Posizioni di ruolo

Ricercatore universitario in Analisi Matematica e Probabilità dal 1982 al 1992
(Università degli Studi di Bari)

Professore Associato di Analisi Matematica dal 1992 al 2003
(Università degli Studi di Bari)

Professore ordinario di Analisi Matematica, dal 1° gennaio 2004 ad oggi
(Università degli Studi di Bari Aldo Moro).

Attività scientifica

L'attività di ricerca si concentra prevalentemente nell'ambito delle equazioni di evoluzione con condizioni al bordo di tipo dinamico con metodi della teoria dei semigrupp di operatori, con particolare riferimento alla regolarità delle soluzioni. Particolare attenzione è stata dedicata di recente alle applicazioni delle equazioni di evoluzione a problemi di controllo, a modelli della Finanza e della Fisica Matematica.

Da anni è in corso una sistematica collaborazione con gruppi di ricerca delle Università di Bologna, Memphis (USA), Tuebingen (Germania) e, più recentemente, con l'Accademia delle Scienze di Bucarest e l'Università di Poitiers (Francia). Ha trascorso numerosi soggiorni all'estero (Europa, USA e Giappone) per attività di ricerca in collaborazione.

Ha pubblicato oltre 80 articoli. È stata co-editor di n.3 volumi.

È stata co-organizzatore di numerosi convegni nazionali ed internazionali.

È stata invited speaker in numerosi convegni internazionali.

Ha tenuto numerosi cicli di seminari in Italia e all'estero.

È editor della rivista Discrete Dynamics in Nature and Society (Hindawi, USA).

È stata associated editor della rivista Journal of Applied Functional Analysis (Eudoxus, USA).

È referee per le riviste: Journal of Mathematical Analysis and Applications, Journal of Evolution Equations, Differential and Integral Equations, Discrete and Continuous Dynamical Systems Series A, Discrete and Continuous Dynamical Systems Series B, Discrete and Continuous Dynamical Systems Series S, Evolution Equations and Control Theory, Milan Journal of Mathematics, Mathematischen Nachrichten, Applied Mathematics Letters, Mediterranean Journal of Mathematics, SeMA Journal.

È stata responsabile scientifico e/o componente di Progetti di Ricerca nazionali e locali su equazioni di evoluzione.

È socio ordinario dell'Accademia Pugliese delle Scienze.

Attività organizzativa e gestionale (ultimo decennio)

Preside della II Facoltà di Scienze Matematiche, Fisiche e Naturali dell'Università degli Studi di Bari Aldo Moro, sede didattica Taranto, per i trienni 2006-2009 e 2009-2012

Componente del Senato Accademico e di numerose Commissioni di Ateneo, per i trienni 2006-2009 e 2009-2012

Coordinatore del Dottorato di Ricerca in Matematica nell'a.a. 2006-2007

Coordinatore ERASMUS di numerosi accordi europei con Germania, Romania, Spagna

Delegata per i Rapporti con l'Esterno del Dipartimento di Matematica fino al 2016

Delegata per la Ricerca e per la SUA-RD per il Dipartimento di Matematica fino al 2016

Presidente del Polo Bibliotecario Scientifico dell'Università degli Studi di Bari (2016 – 2018)

Presidente del Comitato Scientifico del Museo della Matematica dell'Università degli Studi di Bari (2017 – 2020)

Componente di Commissioni per Valutazioni Comparative per selezioni a posti di

Ricercatore a tempo indeterminato (Politecnico di Torino),

Professore Associato (Università di Ferrara, Università Statale di Milano),

Ricercatore a tempo determinato di tipo a) e di tipo b) (Università degli Studi di Bari Aldo Moro, Università del Salento)

Professore Ordinario (Università degli Studi di Bari Aldo Moro).

Attività didattica in sede

Insegnamenti svolti in sede:

Analisi Funzionale per il Corso di Laurea in Matematica (v.o.) e per il Corso di Laurea triennale in Matematica

Analisi Matematica I e II per il Corso di Laurea in Informatica (v.o.)

Matematica per il Corso di Laurea triennale in Scienze Ambientali (sede di Taranto),

Metodi e Modelli Matematici per il Corso di Laurea Specialistica in Scienze e Tecnologie per l'Ambiente ed il Territorio (sede di Taranto),

Matematica per il Corso di Laurea triennale in Scienze e Gestione delle Attività Marittime (sede di Taranto, in convenzione con la Marina Militare)

Complementi di Matematica per il Corso di Laurea triennale in Scienze e Gestione delle Attività Marittime (sede di Taranto, in convenzione con la Marina Militare)

Equazioni di Evoluzione per il Corso di Laurea Magistrale in Matematica

Problemi di Evoluzione per il Corso di Dottorato in Matematica ed in Informatica e Matematica

Analisi Matematica 1 e 2 per il Corso di Laurea triennale in Matematica

Attività didattica all'estero

Nell'ambito del programma ERASMUS+, ha svolto attività di docenza all'estero come Teaching Staff Mobility, presso le Università di

Ulm (Germania)

a.a. 2013-2014

Dortmund (Germania)

a.a. 2014-2015

Valencia (Spagna)

a.a. 2015-2016

Cluj-Napoca (Romania)

a.a. 2016-2017

Technische Hochschule Mittelhessen (Germania)

a.a. 2017-2018

Bucarest (Romania)

a.a. 2018-2019.

Publicazioni scientifiche

Articoli su riviste con referee

1. M. D'ABBICCO, G. GIRARDI, G.R. GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2020). Equipartition of energy for nonautonomous damped wave equations, *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS SERIES S* (to appear)
2. G. FRAGNELLI, J.A. GOLDSTEIN, R.M. MININNI and **S. ROMANELLI** (2019). Operators of order $2n$ with interior degeneracy, *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS SERIES S*, doi:10.3934/dcds.2020128
3. G.R. GOLDSTEIN, J.A. GOLDSTEIN, R.M. MININNI and **S. ROMANELLI** (2019). A general Cox-Ingersoll-Ross equation with growing initial conditions, *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS SERIES S*, doi:10.3934/dcds.2020085
4. G.R. GOLDSTEIN, J.A. GOLDSTEIN, D. GUIDETTI and **S. ROMANELLI** (2019). Maximal regularity, analytic semigroups, and dynamic and general Wentzell boundary conditions with boundary diffusion, *ANNALI DI MATEMATICA PURA E APPLICATA* <https://doi.org/10.1007/s10231-019-00868-3>.
5. M. BUFALO, R.M. MININNI and **S. ROMANELLI** (2019). A semigroup approach to generalized Black-Scholes type equations in incomplete markets, *JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS*, vol. 477, p. 1195-1223
6. G.R. GOLDSTEIN, J.A. GOLDSTEIN, R.M. MININNI and **S. ROMANELLI** (2019). Scaling and variants of Hardy's inequality, *PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY*, vol. 147, p. 1165-1172
7. **S. ROMANELLI** (2017).
The contribution of Angelo Favini in twenty years of joint research (1996-2016), *VESTNIK YuUrGU Ser. Mat. Model. Progr. Volume 10, Issue 1*, p. 159-164
8. G. MARINOSCHI, R.M. MININNI and **S. ROMANELLI** (2017).
An optimal control problem in coefficients for a strongly degenerate parabolic equation with interior degeneracy, *JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS*, vol. 173, p. 56-77
9. R.M. MININNI, A. MIRANVILLE and **S. ROMANELLI** (2017).
Higher-order Cahn-Hilliard equations with dynamic boundary conditions, *JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS*, vol. 449, p. 1321-1339
10. A. FAVINI, G.R. GOLDSTEIN, J.A. GOLDSTEIN, E. OBRECHT and **S. ROMANELLI** (2016).
Nonsymmetric elliptic operators with Wentzell boundary conditions in general domains, *COMMUNICATIONS ON PURE AND APPLIED ANALYSIS*, vol. 15, p. 2475-2487
11. G. FRAGNELLI, G.R. GOLDSTEIN, J.A. GOLDSTEIN, R.M. MININNI and **S. ROMANELLI** (2016).
Generalized Wentzell boundary conditions for second order operators with interior degeneracy, *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS. SERIES S* (9), p. 697-715
12. G.R. GOLDSTEIN, J.A. GOLDSTEIN, R.M. MININNI and **S. ROMANELLI** (2016).
The semigroup governing the generalized Cox-Ingersoll-Ross equation, *ADVANCES IN DIFFERENTIAL EQUATIONS*, vol. 21, p. 235-264
13. G. FRAGNELLI, G. MARINOSCHI, R.M. MININNI and **S. ROMANELLI** (2015).
Identification of a diffusion coefficient in strongly degenerate parabolic equation with interior degeneracy, *JOURNAL OF EVOLUTION EQUATIONS*, vol. 15, p. 27-51

14. A. FAVINI, G.R. GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2014).
Analytic Feller semigroups via hypergeometric series,
AFRICAN DIASPORA JOURNAL OF MATHEMATICS, vol. 17, p. 1-9
15. G.M. COCLITE, A. FAVINI, G.R. GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2014).
Continuous dependence in hyperbolic problems with Wentzell boundary conditions,
COMMUNICATIONS ON PURE AND APPLIED ANALYSIS, vol. 13, p. 419-433
16. **S. ROMANELLI** (2014).
Goldstein-Wentzell boundary conditions: Recent results with Jerry and Gisele Goldstein,
DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS, vol. 34, p. 749-760
17. G. FRAGNELLI, G.R. GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2012).
Generators with interior degeneracy on spaces of L^2 type,
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, vol. 2012, p. 1-30
18. A. FAVINI, G. R. GOLDSTEIN, J. A. GOLDSTEIN and **S. ROMANELLI** (2011).
Selfadjointness of degenerate elliptic operators on higher order Sobolev spaces,
DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS. SERIES S, vol. 4, p. 581-593
19. T. CLARKE, G. R. GOLDSTEIN, J. A. GOLDSTEIN and **S. ROMANELLI** (2011).
The Wentzell telegraph equation: asymptotics and continuous dependence on the boundary conditions,
COMMUNICATIONS IN APPLIED ANALYSIS, vol. 15, p. 313-324
20. A. FAVINI, G. R. GOLDSTEIN, J. A. GOLDSTEIN, E. OBRECHT and **S. ROMANELLI** (2010).
Elliptic operators with general Wentzell boundary conditions, analytic semigroups and the angle concavity theorem,
MATHEMATISCHE NACHRICHTEN, vol. 283, p. 1-18
21. A. FAVINI, G.R. GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2008).
Wentzell boundary conditions in the nonsymmetric case,
MATHEMATICAL MODELLING OF NATURAL PHENOMENA, vol. 3, p. 143-147,
22. G.M. COCLITE, A. FAVINI, G.R. GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2008).
Continuous dependence on the boundary conditions for the Wentzell Laplacian,
SEMIGROUP FORUM, vol. 77, p.101-108
23. A. FAVINI, G.RUIZ GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2008).
Fourth order operators with general Wentzell boundary conditions,
ROCKY MOUNTAIN JOURNAL OF MATHEMATICS, vol. 38, p. 445-460
24. J.A. GOLDSTEIN, R.M. MININNI and **S. ROMANELLI** (2007).
Markov semigroups and groups of operators,
COMMUNICATIONS ON STOCHASTIC ANALYSIS, vol. 1, No 2, p. 247-262, ISSN: 0973-9599
25. J.A. GOLDSTEIN, R.M. MININNI and **S. ROMANELLI** (2007).
Markov semigroups and estimating functions, with applications to some financial models,
COMMUNICATIONS ON STOCHASTIC ANALYSIS, vol. 1, No.3, p. 381-391
26. A. FAVINI, G. RUIZ GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2007).
Classification of general Wentzell boundary conditions for fourth order operators in one space dimension,
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol. 333, p. 219-235
27. D. MUGNOLO and **S. ROMANELLI** (2007).
Dynamic and generalized Wentzell node conditions for network equations,
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol. 30, p. 681-706

28. J.A. GOLDSTEIN, R.M. MININNI and **S. ROMANELLI** (2007).
Generators of Feller semigroups with coefficients depending on parameters and optimal estimators,
DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS, vol. B-8 (2) p. 511-527
29. **S. ROMANELLI**, A. FAVINI, G. R. GOLDSTEIN, J. A. GOLDSTEIN and K. TAIRA (2006).
Degenerate elliptic operators with general boundary conditions and Feller semigroups,
FAR EAST JOURNAL OF APPLIED MATHEMATICS, vol. 24, p. 1-22
30. A. FAVINI, G. RUIZ GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2006).
The heat equation with nonlinear general Wentzell boundary condition,
ADVANCES IN DIFFERENTIAL EQUATIONS, vol. 11, p. 481-510
31. D. MUGNOLO and **S. ROMANELLI** (2006).
Dirichlet forms for general Wentzell boundary conditions, analytic semigroups, and cosine operator functions,
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, vol. 118, p. 1-20
32. A. FAVINI, C.G. GAL, G. R. GOLDSTEIN, J. A. GOLDSTEIN and **S. ROMANELLI** (2005).
The non-autonomous wave equation with general Wentzell boundary conditions,
PROCEEDINGS OF THE ROYAL SOCIETY OF EDINBURGH. SECTION A. MATHEMATICS, vol. 135 A, p. 317-329
33. A. FAVINI, G.R. GOLDSTEIN, J.A. GOLDSTEIN, E. OBRECHT and **S. ROMANELLI** (2003).
General Wentzell boundary conditions and analytic semigroups on $W^{1,p}(0,1)$,
APPLICABLE ANALYSIS, vol. 82 (9), p. 927-935
34. R. M. MININNI and **S. ROMANELLI** (2003).
Martingale estimating functions for Feller diffusion processes generated by degenerate elliptic operators,
JOURNAL OF CONCRETE AND APPLICABLE MATHEMATICS, vol. 1(3), p. 191-216
35. W. ARENDT, G. METAFUNE, D. PALLARA and **S. ROMANELLI** (2003).
The Laplacian with Wentzell-Robin boundary conditions on spaces of continuous functions,
SEMIGROUP FORUM, vol. 67, p. 247-261
36. A. FAVINI, G. R. GOLDSTEIN, J. A. GOLDSTEIN and **S. ROMANELLI** (2002).
Boundary conditions, differential operators and analytic semigroups in $C[0,1]$,
BOLETIM DA SOCIEDADE PARANAENSE DE MATEMATICA, vol. 20, 1/2, p. 93-102
37. A. FAVINI, G. R. GOLDSTEIN, J. A. GOLDSTEIN and **S. ROMANELLI** (2002).
Degenerate second order differential operators generating analytic semigroups in L^p and $W^{1,p}$,
MATHEMATISCHE NACHRICHTEN, vol. 238, p. 78-102
38. A. FAVINI, G. R. GOLDSTEIN, J. A. GOLDSTEIN and **S. ROMANELLI** (2002).
The heat equation with generalized Wentzell boundary conditions,
JOURNAL OF EVOLUTION EQUATIONS, vol. 2, p. 1-19
39. **S. ROMANELLI** (2001).
Diffusion processes, Feller semigroups and Wentzell boundary conditions,
RIVISTA DI BIOLOGIA, vol. 94, p. 249-256
40. A. FAVINI, G. R. GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2001).
Nonlinear boundary conditions for nonlinear second order differential operators on $C[0,1]$,
ARCHIV DER MATHEMATIK, vol.76, p. 391-400
41. E. CITO, G.R. GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2001).
The Favard class for a parabolic problem with Wentzell boundary conditions,
APPLICABLE ANALYSIS, vol. 78 (1-2), p. 43-54

42. K. TAIRA, A. FAVINI and **S. ROMANELLI** (2001).
Feller semigroups and degenerate elliptic operators with Wentzell boundary conditions,
STUDIA MATHEMATICA, vol. 145 (1), p. 17-53
43. A. FAVINI, G.R. GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2000).
 C_0 Semigroups generated by second order differential operators with general Wentzell boundary conditions,
PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY, vol. 128, p. 1981-1989
44. K. TAIRA, A. FAVINI and **S. ROMANELLI** (2000).
Feller semigroups generated by degenerate elliptic operators,
SEMIGROUP FORUM, vol. 60, p. 296-309
45. A. FAVINI, J.A. GOLDSTEIN and **S. ROMANELLI** (1999) *Analytic semigroups on $L^p_w(0,1)$ and on $L^p(0,1)$ generated by some classes of second order differential operators*,
TAIWANESE JOURNAL OF MATHEMATICS, vol. 3, p.181-210
46. A. FAVINI and **S. ROMANELLI** (1998).
Analytic semigroups on $C[0,1]$ generated by some classes of second order differential operators,
SEMIGROUP FORUM, vol. 56, p. 362-372
47. G.R. GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (1998).
A new approach to the analyticity of some classes of one-parameter semigroups in weighted- L^p space,
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol. 226, p. 393-413
48. V. BARBU, A. FAVINI and **S. ROMANELLI** (1996).
Degenerate evolution equations and regularity of their associated semigroups,
FUNKCIALAJ EKVACIOJ, vol. 39, p. 421-448
49. R. NAGEL, G. NICKEL and **S. ROMANELLI** (1996).
Identification of extrapolation spaces for unbounded operators,
QUAESTIONES MATHEMATICAE, vol. 19, p. 83-100
50. **S. ROMANELLI** (1992).
Universal Korovkin closures with respect to linear operators on commutative Banach algebras,
MATHEMATICA JAPONICA, vol. 37, p. 427-443
51. F. ALTOMARE and **S. ROMANELLI** (1992).
On some classes of Lototsky-Schnabl operators,
NOTE DI MATEMATICA, vol. 12, p. 1-13
52. M. PANNENBERG and **S. ROMANELLI** (1991).
Korovkin approximation of operators in commutative Banach algebras,
ATTI DEL SEMINARIO MATEMATICO E FISICO DELL'UNIVERSITA' DI MODENA, vol. XXIX, p. 387-399
53. **S. ROMANELLI** (1991).
Ergodic subspaces related to operator semigroups,
BULLETIN OF THE POLISH ACADEMY OF SCIENCES. MATHEMATICS, vol. 39, p.191-198
54. **S. ROMANELLI** (1989).
Determining subspaces for discrete - type linear forms on commutative Banach algebras,
RENDICONTI DEL CIRCOLO MATEMATICO DI PALERMO, serie II, vol. XXXVIII, p. 455-479
55. **S. ROMANELLI** (1986).
A generalized notion of almost periodicity in connection with vector means and compactifications,
BOLLETTINO DELL'UNIONE MATEMATICA ITALIANA (6) vol. 5-B, p. 639-659

56. **S. ROMANELLI** (1980).

Funzioni quasi periodiche rispetto a sottogruppi e corrispondenti medie invarianti,
RENDICONTO DELL'ACCADEMIA DELLE SCIENZE FISICHE E MATEMATICHE, serie IV, vol. XLVIII, p.
337-355

Contributi in volume con referee

57. G.R. GOLDSTEIN, J.A. GOLDSTEIN, D. GUIDETTI and **S. ROMANELLI** (2020). *The fourth order Wentzell heat equation*, in: J. BANASIAK et al. Editors, *Semigroups of Operators: Theory and Applications SOTA Springer (to appear)*

58. G. FRAGNELLI, G. MARINOSCHI, R.M. MININNI and **S. ROMANELLI** (2014). *A Control Approach for an Identification Problem Associated to a Strongly Degenerate Parabolic System with Interior Degeneracy*, in: A. FAVINI, G. FRAGNELLI and R.M. MININNI Editors, *New Prospects in Direct, Inverse and Control Problems for Evolution Equations, Springer INdAM Series, vol.10, Springer International Publishing Switzerland, p. 121-139*

59. G. FRAGNELLI, G.R. GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2013). *Asymptotic parabolicity for strongly damped wave equations*, in: H. HOLDEN, B. SIMON and G. TESCHL Editors, *Spectral Analysis, Differential Equations and Mathematical Physics: A Festschrift in Honor of Fritz Gesztesy's 60th Birthday, Proceedings of Symposia in Pure Mathematics, vol. 87, American Mathematical Society, p. 119-131*

60. G. M. COCLITE, A. FAVINI, C.G. GAL, G. R. GOLDSTEIN, J.A. GOLDSTEIN, E. OBRECHT and **S. ROMANELLI** (2009). *The role of Wentzell boundary conditions in linear and nonlinear analysis*, in: S. SIVASUNDARAN Editor, *Advances in Nonlinear Analysis: Theory, Methods and Applications, Cambridge Scientific Publishers, vol. 3, p. 279-292*

61. J.A. GOLDSTEIN, R.M., MININNI and **S. ROMANELLI** (2008). *A new explicit formula of the Black-Merton-Scholes equation*, in: A.N. SENGUPTA and P. SUNDAR Editors, *Infinite Dimensional Stochastic Analysis in Honor of Hui-Hsiung Kuo, Quantum Probability and White Noise Analysis, World Scientific Publishers Singapore, vol. XXII, p. 226-235*

62. A. FAVINI, G.R. GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2006). *Fourth order ordinary differential operators with general Wentzell boundary conditions*, in: A.FAVINI and A. LORENZI Editors, *Differential Equations: Direct and Inverse Problems, Chapman & Hall/CRC, Boca Raton, vol. 251, p. 61-74*

63. **S. ROMANELLI** (2004). *Degenerate elliptic operators and analytic semigroups*, in: S. ROMANELLI, R.M. MININNI, S. LUCENTE Editors, *Interplay between (C_0) -Semigroups and PDEs: Theory and Applications, Aracne editrice, Roma p. 197-211*

64. **S. ROMANELLI** (2003). *An interplay between Determinism and One-Parameter Semigroups: theoretical aspects and applications*, in: G. PELLEGRINI et al. Editors, *Determinism, Holism and Complexity, Springer New York, p. 133-139*

65. A. FAVINI, G.R. GOLDSTEIN, J.A. GOLDSTEIN, E. OBRECHT and **S. ROMANELLI** (2003). *The Laplacian with generalized Wentzell boundary conditions*, in: M. IANNELLI and G. LUMER Editors, *Evolution Equations: Applications to Physics, Industry, Life Sciences and Economics - EVEQ 2000, Birkhauser, p. 169-180*

66. A. FAVINI, G. R. GOLDSTEIN, J. A. GOLDSTEIN and **S. ROMANELLI** (2001). *The one dimensional wave equation with Wentzell boundary conditions*, in: S. AIZICOVICI and N.H. PAVEL Editors, *Differential Equations and Control Theory, M. Dekker, New York, p. 139-145*

67. A. FAVINI, G.R. GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2000). *On some classes of differential operators generating analytic semigroups*, in: G. LUMER and L. WEIS Editors, *Evolution Equations and their Applications in Physical and Life Sciences, M. Dekker, New York, p. 105-120*

68. A. FAVINI, G.R. GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI** (2000). *Generalized Wentzell boundary conditions and analytic semigroups in $C[0,1]$* , in: A. V. BALAKRISHNAN Editor, *Semigroups of Operators: Theory and Applications, PNLDE 42 Birkhauser, Basel, p. 125-130*

69. M. CAMPITI, G. METAFUNE, D. PALLARA and **S. ROMANELLI** (2000).
Semigroups for ordinary differential operators, in: K.J. ENGEL, R. NAGEL, *One-parameter Semigroups for Linear Evolution Equations*, Springer Verlag, Berlin, p. 382-404,
70. A. FAVINI, J.A. GOLDSTEIN and **S. ROMANELLI** (1997).
An analytic semigroup associated to a degenerate evolution equation, in: GOLDSTEIN J.A., GRETSKY N.E., UHL J.J. Jr., Editors, *Stochastic Processes and Functional Analysis*, M. Dekker, New York, vol. 186, p. 85-100
71. A. FAVINI and **S. ROMANELLI** (1997).
Degenerate second order operators as generators of analytic semigroups on $C[0,+\infty]$ or on $L^p_\alpha(\frac{1}{2})(0,+\infty)$, in: D. STANCU et al. Editors, *Approximation and Optimization*, Transilvania Press, Volume II, p. 93-100
72. A. ATTALIENTI and **S. ROMANELLI** (1995).
On some classes of analytic semigroups on $C([a,b])$ related to R or Γ admissible mappings, in: G. FERREYRA, G.R. GOLDSTEIN and F. NEUBRANDER Editors, *Evolution Equations, Lecture Notes in Pure and Applied Mathematics*. M. Dekker, New York, vol. 168, p. 29-34
73. **S. ROMANELLI** (1989).
Almost periodic subspaces related to operator semigroups, in: PH. CLEMENT et al. Editors, *Semigroup Theory and Applications*, Lecture Notes in Pure and Applied Mathematics, M. Dekker, New York, vol. 116, p. 353-366
74. **S. ROMANELLI** (1989).
Convergence of nets of positive linear forms on commutative Banach algebras, in: P.L. PAPINI Editor, *Functional Analysis and Approximation*, Pitagora Editrice, Bologna, p. 256-267
75. **S. ROMANELLI** (1988).
A Godement - type decomposition for positive definite functions, in: P. EYMARD and J.P. PIER Editors, *Harmonic Analysis, Lecture Notes in Mathematics*, Springer Verlag, Berlin, vol. 1359, p. 242-251

Altre pubblicazioni

76. G.R. GOLDSTEIN, J.A. GOLDSTEIN, R.M. MININNI and **S. ROMANELLI**
(in preparazione)
77. C.G. GAL, G.R. GOLDSTEIN, J.A. GOLDSTEIN and **S. ROMANELLI**
Fredholm alternative, nonlinear elliptic operators and Wentzell boundary conditions (preprint).
78. R.M. MININNI and **S. ROMANELLI** (2005)
Alternative approaches for the estimates of diffusion processes generated by two parameter elliptic operators, Rapp. N. 33/2005 Dipartimento di Matematica, Universita' degli Studi di Bari
79. **S. ROMANELLI**, R.M. MININNI and S. LUCENTE Editors (2004),
Interplay between (C_0) -semigroups and PDEs: theory and applications.
Aracne editrice, Roma
80. G.R. GOLDSTEIN, R. NAGEL and **S. ROMANELLI** Editors (2003),
Evolution Equations, Lecture Notes in Pure and Applied Mathematics, M. Dekker, New York
81. K. TAIRA, A. FAVINI and **S. ROMANELLI** (2001). *Existence of Feller semigroups with discontinuous coefficients*, Rapp. n.17/2001 Dipartimento Interuniversitario di Matematica, Universita' degli Studi di Bari

82. **S. ROMANELLI** (2000).

Su alcuni modelli matematici della Genetica, Rapp. n.17/2000 Dipartimento Interuniversitario di Matematica, Universita' degli Studi di Bari

83. **S. ROMANELLI** (1999).

Processi di diffusione e semigrupperi di operatori, in: P. CERRAI e P. FREGUGLIA Editors, *La Matematizzazione della Biologia: Storia e Problematiche Attuali*, Editrice Quattroventi, p. 191-196

84. E. CITO, J.A. GOLDSTEIN and **S. ROMANELLI** (1999). *The Favard class of $Au = \alpha u''$ with Wentzell boundary conditions*, Rapp. n. 6/1999 Dipartimento Interuniversitario di Matematica, Universita' degli Studi di Bari

85. E. CITO, J.A. GOLDSTEIN and **S. ROMANELLI** (1999). *The Favard class for a nonlinear parabolic problem with Wentzell boundary conditions*, Rapp. n. 42/99 Dipartimento Interuniversitario di Matematica, Universita' degli Studi di Bari

86. A. FAVINI and **S. ROMANELLI** (1995).

Recent results on some degenerate equations and their related semigroups, TUEBINGER BERICHTE ZUR FUNKTIONALANALYSIS, Heft 4, Jahrgang 1994/95, p. 61-68

87. **S. ROMANELLI** (1991).

Ergodic properties and S-nets for operator semigroups, SEMESTERBERICHTE FUNKTIONALANALYSIS, Tuebingen. p. 243-247, Math. Institute Tuebingen

88. **S. ROMANELLI** (1990).

Universal Korovkin closures related to multipliers on commutative Banach algebras, Rapp. n. 24/1990 Dipartimento di Matematica, Universita' degli Studi di Bari

89. **S. ROMANELLI** (1985).

Some results on a generalized notion of almost periodicity and a consequence of Godement's theorem on the positive definite functions, SEMESTERBERICHTE FUNKTIONALANALYSIS, Tuebingen, Sommersemester 1985, p. 151-155

90. **S. ROMANELLI** (1980).

Intorno al completamento di alcuni spazi col metodo dei filtri di Cauchy minimali (Nota interna).