Piano di Ricerca

1. Approximation theory:
   - Kernel-based methods and machine learning (De Marchi, Perracchione)
   - Formal orthogonal polynomials (Cipolla, Redivo Zaglia)
   - Multivariate polynomial approximation (De Marchi, Erb, Piazzon,Sommariva, Vianello)
   - Multivariate polynomial optimization (Piazzon, Sommariva, Vianello)
   - Numerical extrapolation and acceleration (Cipolla, Redivo Zaglia)
   - Numerical quadrature (Cipolla, Redivo Zaglia)
   - Numerical cubature (Sommariva, Vianello)
   - Pade' approximants (Redivo Zaglia)
2. Linear algebra
   - Computational inverse problems (Marcuzzi)
   - Numerical solution of linear systems (Cipolla, Redivo Zaglia)
3. Mathematical imaging
   - Mathematical imaging in Applied Sciences (De Marchi)
4. Partial Differential Equations:
   - Computational fluid-dynamics (Bachini, Facca, Putti)
   - Finite elements and volumes (Bachini, Facca, Putti)
   - Meshless methods (De Marchi, Perracchione)