

FunctionRn
- vector<Monomial> monoms;
+ double eval (const Point & P) const;
+ addMonomial (const Monomial & m)
+ double eval_deriv (size_t j, const Point & P)

Monomial
- double coeff
- vector<double> powers
+ Monomial (double c, vector<double> const & pows)
+ double eval (Point const & P)

Point
# coords_type x;
+ explicit Point (coords_type const & coords)
+ double distance (const Point & p)
+ size_t get_n_dimensions ()
+ double get_coord (size_t i)
+ set_coord (size_t i, double val)
+ coords_type get_coords ()
+ double euclidean_norm ()
+ double infinity_norm ()

FunctionMinRn
FunctionRn f;
- double tolerance
- double step
- unsigned int max_iterations
- vector<double> inf_limits;
- vector<double> sup_limits;
- Point compute_gradient (const Point & P0)
- Point solve (const Point & P)
- next_inf_limit (vector<double> & cur_inf_limit, const vector<double> & internal_steps)
+ FunctionMinRn (FunctionRn func, double tol, double s, unsigned int max_it, const std::vector<double> & inff_limits, const std::vector<double> & supp_limits)
+ Point solve (void) const;
+ Point solve_multistart (unsigned int n_trials) const;
+ Point solve_domain_decomposition (unsigned int n_intervals, unsigned int n_trials)