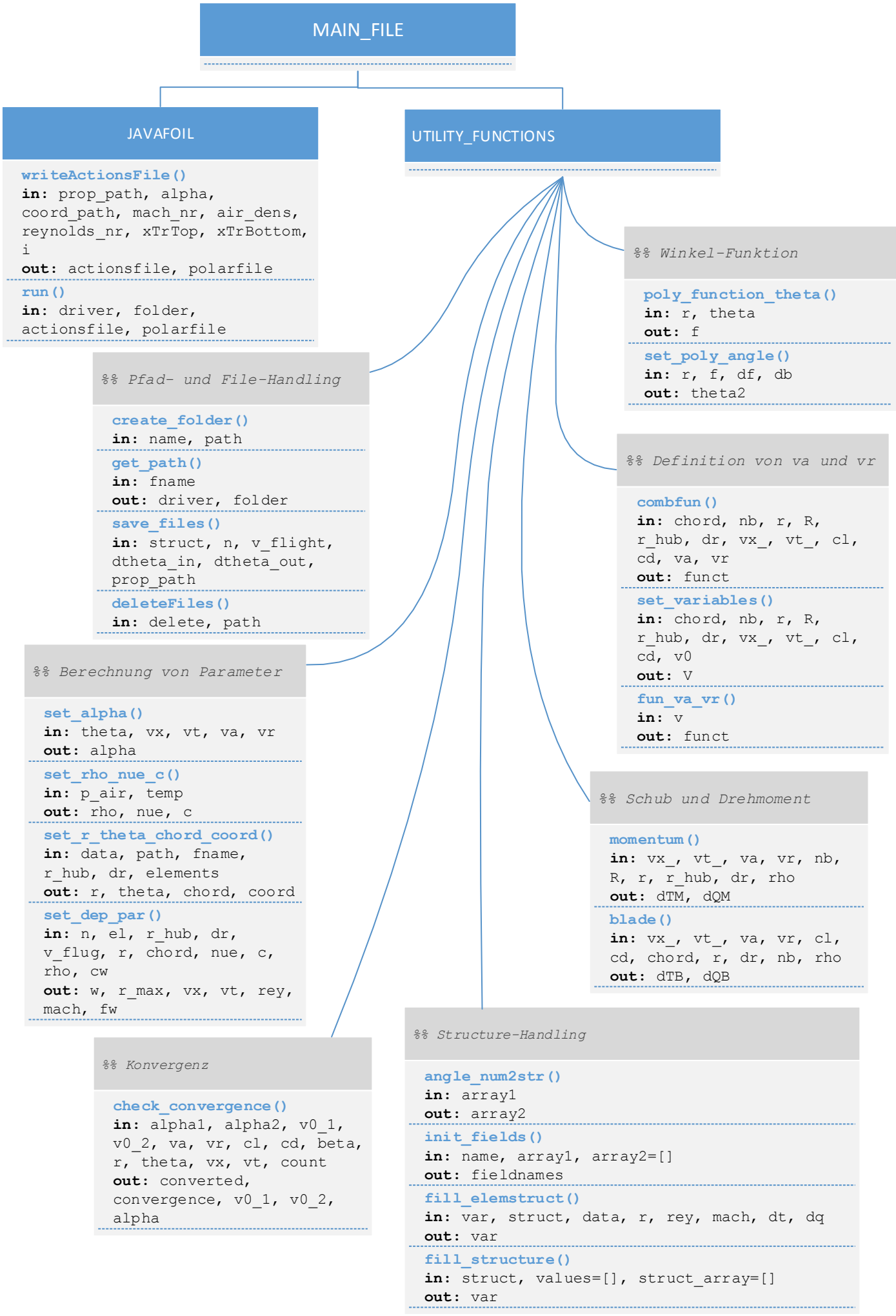
MAIN_FILE
JAVAFOIL
writeActionsFile()
in: prop_path, alpha, coord_path, mach_nr, air_dens, reynolds_nr, xTrTop, xTrBottom, i
out: actionsfile, polarfile
run()
in: driver, folder, actionsfile, polarfile
UTILITY_FUNCTIONS
%% Pfad- und File-Handling
create_folder()
in: name, path
get_path()
in: fname
out: driver, folder
save_files()
in: struct, n, v_flight, dtheta_in, dtheta_out, prop_path
deleteFiles()
in: delete, path
%% Berechnung von Parameter
set_alpha()
in: theta, vx, vt, va, vr
out: alpha
set_rho_nue_c()
in: p_air, temp
out: rho, nue, c
set_r_theta_chord_coord()
in: data, path, fname, r_hub, dr, elements
out: r, theta, chord, coord
set_dep_par()
in: n, el, r_hub, dr, v_flug, r, chord, nue, c, rho, cw
out: w, r_max, vx, vt, rey, mach, fw
%% Konvergenz
check_convergence()
in: alpha1, alpha2, v0_1, v0_2, va, vr, cl, cd, beta, r, theta, vx, vt, count
out: converted, convergence, v0_1, v0_2, alpha
%% Winkel-Funktion
poly_function_theta()
in: r, theta
out: f
set_poly_angle()
in: r, f, df, db
out: theta2
%% Definition von va und vr
combfun()
in: chord, nb, r, R, r_hub, dr, vx_, vt_, cl, cd, va, vr
out: funct
set_variables()
in: chord, nb, r, R, r_hub, dr, vx_, vt_, cl, cd, v0
out: V
fun_va_vr()
in: v
out: funct
%% Schub und Drehmoment
momentum()
in: vx_, vt_, va, vr, nb, R, r, r_hub, dr, rho
out: dTM, dQM
blade()
in: vx_, vt_, va, vr, cl, cd, chord, r, dr, nb, rho
out: dTB, dQB
%% Structure-Handling
angle_num2str()
in: array1
out: array2
init_fields()
in: name, array1, array2=[]
out: fieldnames
fill_elemstruct()
in: var, struct, data, r, rey, mach, dt, dq
out: var
fill_structure()
in: struct, values=[], struct_array=[]
out: var