Notation

$\lvert v'\rvert(t)$	Metric derivative of $v:(a,b)\to\mathscr{S}$, see Theorem 1.1.2
$AC^p(a,b;\mathscr{S})$	Absolutely continuous $v:(a,b)\to\mathscr{S}$ with $\lvert v'\rvert\in L^p(a,b)$
$B_r(x)$	Open ball of radius r centered at x in a metric space
$D(\phi)$	Domain of the functional ϕ, see (1.2.1)
$\lvert\partial\phi\rvert(v)$, $\mathfrak{l}_\phi(v)$	Local and global slopes of ϕ, see Definition 1.2.4
$\mathrm{Lip}(\phi,A)$	Lipschitz constant of the function ϕ in the set A
$\partial\phi(v)$	Fréchet subdifferential of ϕ in Banach (1.4.7), Hilbert (10.0.1), or Wasserstein spaces, see Definition 10.1.1 and (10.3.12)
$\partial^\circ\phi(\mu)$	Minimal selection map in the subdifferential, see Section 1.4 and (10.1.14)
$\lvert\partial^-\phi\rvert(v)$	Relaxed slope of ϕ, see (2.3.1)
$\Phi(\tau,u;v)$	Quadratic perturbation of ϕ by $d^2(u,\cdot)/2\tau$, see (2.0.3b)
$J_\tau[u]$	Resolvent operator, see (2.0.5)
$\overline{U}_\tau(t)$	Piecewise constant interpolation of U^n_τ, see (2.0.7)
$MM(\Phi;u_0)$	Minimizing movement of ϕ, see Definition 2.0.6
$GMM(\Phi;u_0)$	Generalized minimizing movement of ϕ, see Definition 2.0.6
$\phi_\tau(u)$	Moreau–Yosida approximation of ϕ, see Definition 3.1.1
$\tilde{U}_\tau(t)$	De Giorgi's interpolation of U^n_τ, see (3.2.1)
$\mathscr{B}(X)$	Borel sets in a separable metric space X
$C^0_b(X)$	Space of continuous and bounded real functions defined on X
$C^\infty_c(\mathbb{R}^d)$	Space of smooth real functions with compact support in $\mathbb{R}^d$
$\mathscr{P}(X)$	Probability measures in a separable metric space X
$\mathscr{P}_p(X)$	Probability measures with finite p-th moment, see (5.1.22)
$\mathscr{P}_{pq}(X\times X)$	Probability measures with finite p,q-th moments, see (10.3.2)
$L^p(\mu;X)$	L^p space of μ-measurable X-valued maps, see (5.4.3)
X_ϖ	The Hilbert space X endowed with a weaker (normed) topology, see Section 5.1.2
$\tilde{f}$, $\tilde{\nabla}f$	Approximate limit and differential of a function f, see Definition 5.5.1
$\mathrm{supp}\,\mu$	Support of μ, see (5.0.1)
$\mathrm{span}\,C$	Linear envelope generated by a subset C of a vector space
$\boldsymbol{r}_\#\mu$	Push-forward of μ through $\boldsymbol{r}$, see (5.2.1)
π^i, $\pi^{i,j}$	Projection operators on a product space $\boldsymbol{X}$, see (5.2.9)
$\Gamma(\mu^1,\mu^2)$	2-plans with given marginals μ^1, μ^2
$\Gamma_o(\mu^1,\mu^2)$	Optimal 2-plans with given marginals μ^1, μ^2
$\boldsymbol{i}$	Identity map
$\boldsymbol{t}^\nu_\mu$	Optimal transport map between μ and ν, see (7.1.4)
$W_p(\mu,\nu)$	p-th Wasserstein distance between μ and ν
$W_{\boldsymbol{\mu}}(\mu,\nu)$	Pseudo-Wasserstein distance induced by $\boldsymbol{\mu}$, see (7.3.2)
$W_{p,\boldsymbol{\mu}}(\mu,\nu)$	Pseudo pth-Wasserstein distance induced $\boldsymbol{\mu}$, see (10.2.9)
$\pi^{i\to j}_t$, $\pi^{i\to j,k}_t$	Interpolated projections, see (7.2.2)
j_p	Duality map between L^p and $L^{p'}$, see (8.3.1)

$\Pi_d(X)$	d-dimensional projections on a Hilbert space X, see Definition 5.1.11
$\mathrm{Cyl}(X)$	Cylindrical test functions on a Hilbert space X, see Definition 5.1.11
$\bar{\boldsymbol{\gamma}}(x)$	Barycentric projection of a plan $\boldsymbol{\gamma}$ in $\mathscr{P}(X \times X)$, see (5.4.9)
$\mathrm{Tan}_{\mu_t}\mathscr{P}_p(X)$	Tangent bundle to $\mathscr{P}_p(X)$, see Definition 8.4.1
$\Gamma_o(\boldsymbol{\mu}^{1\,2}, \mu^3)$	3-plans $\boldsymbol{\gamma}$ such that $\pi^{1,3}_{\#}\boldsymbol{\gamma} \in \Gamma_o(\pi^1_{\#}\boldsymbol{\mu}^{1\,2}, \mu^3)$
$\boldsymbol{\partial}\phi(\mu)$	Extended Fréchet subdifferential of ϕ at μ, see Definitions 10.3.1
$\boldsymbol{\partial}^\circ\phi(\mu)$	Minimal selection plan in the subdifferential, see Theorem 10.3.11